

AD-A202 719

WATERBORNE COMMERCE OF THE UNITED STATES

Calendar Year 1986

DTIC
ELECTE
JAN 17 1989
S D & D

PART 4
WATERWAYS AND HARBORS
PACIFIC COAST, ALASKA AND HAWAII



DISTRIBUTION STATEMENT A

Approved for public release;
Distribution Unlimited

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS

WATER RESOURCES SUPPORT CENTER

WRSC-WCUS-86-4

Unclassified

SECURITY CLASSIFICATION OF THIS PAGE

ADA202719

REPORT DOCUMENTATION PAGE				Form Approved OMB No. 0704-0188	
1a. REPORT SECURITY CLASSIFICATION			1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY			3. DISTRIBUTION/AVAILABILITY OF REPORT		
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE			Approved for public release; distribution unlimited.		
4. PERFORMING ORGANIZATION REPORT NUMBER(S)			5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION Waterborne Commerce Statistics Center		6b. OFFICE SYMBOL (if applicable) CEWRC-NDC-CC		7a. NAME OF MONITORING ORGANIZATION Water Resources Support Center Navigation Division CEWRC-CC	
6c. ADDRESS (City, State, and ZIP Code) P. O. Box 61280 New Orleans, LA 70161			7b. ADDRESS (City, State, and ZIP Code) Casey Building Fort Belvoir, VA 22060		
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Office, Chief of Engineers, U. S. Army		8b. OFFICE SYMBOL (if applicable) CECW		9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8c. ADDRESS (City, State, and ZIP Code) Casimir Pulaski Building 20 Mass Ave., NW Washington, DC 20314			10. SOURCE OF FUNDING NUMBERS		
			PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO.
			WORK UNIT ACCESSION NO.		
11. TITLE (Include Security Classification) Waterborne Commerce of the United States Calendar Year 1986 Part 4 - Waterways and Harbors, Pacific Coast, Alaska and Hawaii					
12. PERSONAL AUTHOR(S) Department of the Army Corps of Engineers					
13a. TYPE OF REPORT Annual		13b. TIME COVERED FROM 1/1/86 TO 12/31/86		14. DATE OF REPORT (Year, Month, Day) 88 May 31	
15. PAGE COUNT 134					
16. SUPPLEMENTARY NOTATION National Technical Information Service (NTIS) 5285 Port Royal Road Springfield, VA 22161 Available from:					
17. COSATI CODES			18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)		
FIELD	GROUP	SUB-GROUP	Waterborne Commerce -- Statistics		
19. ABSTRACT (Continue on reverse if necessary and identify by block number)					
<p>Waterborne Commerce of the United States, (WCUS), Part 4, Calendar Year 1986 is one of a series of 5 publications containing statistics on the commercial movement of foreign and domestic cargo. WCUS, Part 4, presents detailed data by commodity and traffic for the waterways and harbors on the Pacific Coast, Alaska, and Hawaii. The statistics include commodities given in short tons (2000 lbs.) and vessel trips for the harbors and waterways.</p> <p><i>Requires statistical data, tables data. (KR)</i></p>					
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT <input checked="" type="checkbox"/> UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT. <input type="checkbox"/> DTIC USERS			21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL David L. Penick			22b. TELEPHONE (Include Area Code) (504) 862-1404		22c. OFFICE SYMBOL CEWRC-NDC-CC

DD Form 1473, JUN 86

Previous editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE

WATERBORNE COMMERCE OF THE UNITED STATES

CALENDAR YEAR 1986

PART 4

WATERWAYS AND HARBORS
PACIFIC COAST, ALASKA AND HAWAII



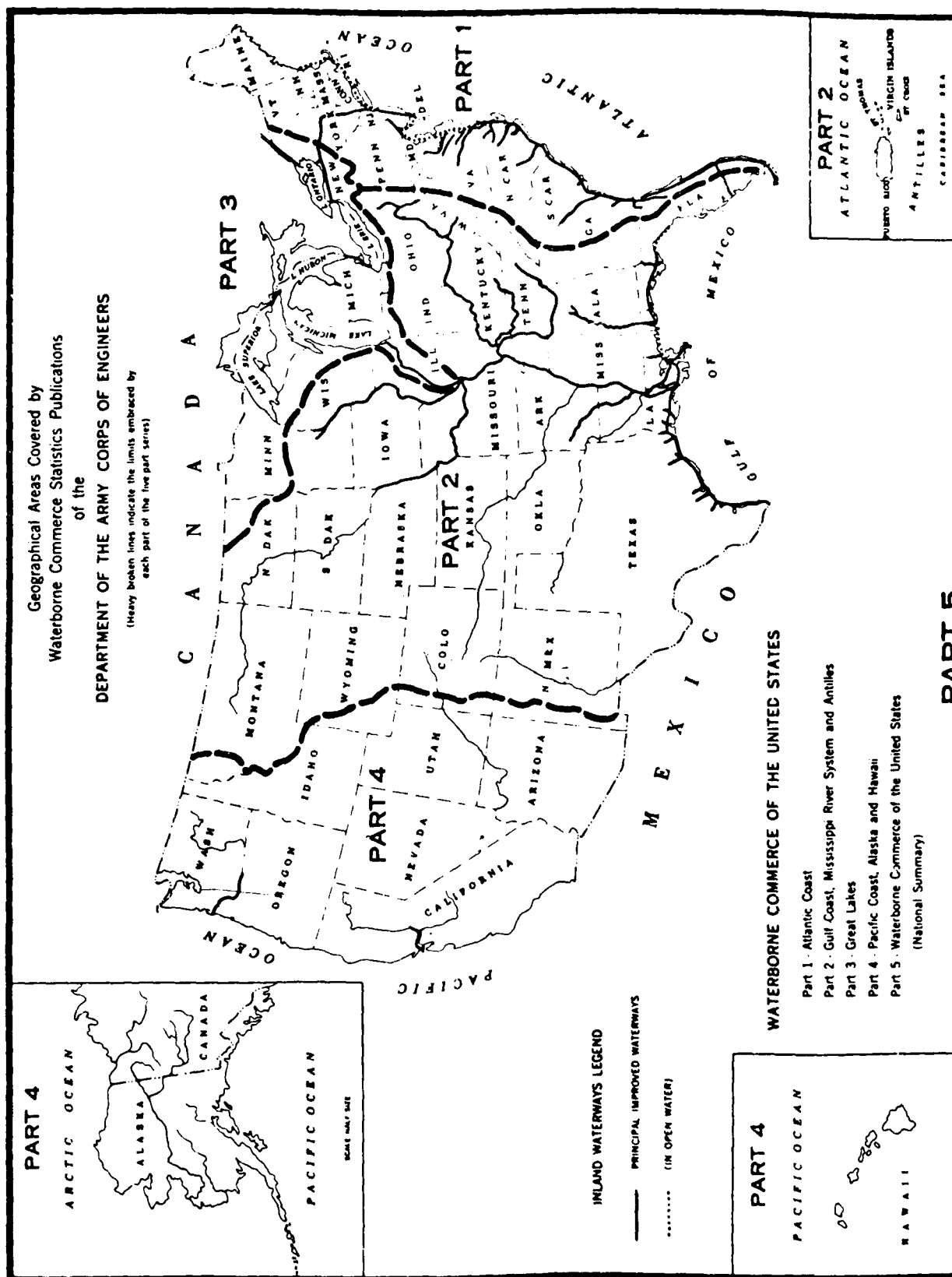
COMPILED UNDER THE SUPERVISION OF
THE WATER RESOURCES SUPPORT CENTER
U.S. ARMY CORPS OF ENGINEERS
FORT BELVOIR, VIRGINIA

Accession For	
NTIS	CRASI <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
User ordered <input type="checkbox"/>	
Justification	
By <i>2.10 P.C.</i>	
Date	
Dist	
<i>A-124</i>	

For sale by:

District Engineer, U.S. Army Engineer District, New Orleans
P.O. Box 66267, New Orleans, Louisiana 70160

Price \$2.00



CONTENTS

V

Page

Map of the United States showing geographical areas covered by each of the five Waterborne Commerce Statistics publications	IV
Introduction	VII
Explanation of Terms for Kind of Traffic	VIII
Commodity Classification for Domestic Waterborne Commerce	IX

SECTION 1. Comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1986 of waterways and harbors of the Pacific Coast, Alaska and Hawaii, arranged by U.S. Army Engineer Districts	1
Los Angeles, Calif.	3
Sacramento, Calif.	10
San Francisco, Calif.	15
Pacific Ocean Division	28
Walla Walla, Wash.	36
Portland, Oreg.	38
Seattle, Wash.	57
Alaska	73

SECTION 2. Trips and drafts of vessels for waterways and harbors of the Pacific Coast, Alaska and Hawaii, arranged by U.S. Army Engineer Districts	97
Los Angeles, Calif.	99
Sacramento, Calif.	101
San Francisco, Calif.	103
Pacific Ocean Division	106
Walla Walla, Wash.	108
Portland, Oreg.	109
Seattle, Wash.	115
Alaska	118
Index	123

INTRODUCTION

This publication is one of a series containing statistics on the waterborne commerce of the United States during the calendar year 1986. Four of these publications present detailed data on the movements of commodities and vessels at the ports and harbors and on the waterways and canals of the United States, the Commonwealth of Puerto Rico, and the Virgin Islands, and the fifth contains summary data of the country as a whole. The numbers of the publications and the areas covered are:

Area

- Part 1. Atlantic Coast
- Part 2. Gulf Coast, Mississippi River System, and Antilles
- Part 3. Great Lakes
- Part 4. Pacific Coast, Alaska, and Hawaii
- Part 5. Waterborne Commerce of the United States (National Summaries)

Both the foreign and domestic commerce moved on United States waters are included. Data on the foreign commerce were supplied to the Corps of Engineers by the Bureau of the Census; data for the compilation of the domestic statistics were collected by the several offices of the Corps of Engineers, Department of the Army, in compliance with various acts of Congress. The principal provision governing the collection of these data is included in the River and Harbor Act of September 22, 1922:

Section 11. That owners, agents, masters, and clerks of vessels and other craft plying upon the navigable waters of the United States, and all individuals and corporations engaged in transporting their own goods upon the navigable waters of the United States, shall furnish such statements relative to vessels, passengers, freight and tonnage as may be required by the Secretary of War: Provided, that this provision shall not apply to those rafting logs, except upon a direct request upon the owner to furnish specific information.

That every person or persons offending against the provisions of this section, shall for each and every offense, be liable to a fine of \$100 or imprisonment not exceeding two months, to be enforced in any district court in the United States within whose territorial jurisdiction such offense may have been committed.

While the information as now collected and compiled is designed to meet the administrative requirements of the Department of the Army in connection with the duties assigned by Congress, it also provides useful data for other governmental departments, commercial and shipping concerns, and others interested in transportation.

Waterborne traffic movements were reported to the Corps of Engineers by all vessel operators of record on prescribed forms approved by the Office of Management and Budget under the Federal Reports Act of 1942 for those movements of their vessels which were classified as domestic traffic; namely, between United States ports, continental and noncontiguous, and on the island rivers, canals, and connecting channels of the United States, Puerto Rico, and the Virgin Islands, excluding the Panama Canal. The reports were generally submitted on the basis of a vessel movement completed in one direction and, for movements with cargo, the origin and destination of the water transportation of each individual commodity. In compiling the data, the entire movement was included in the year in which the movement was completed even though the shipment may have originated in the preceding year, except that, beginning with calendar year 1961 statistics, a cutoff date of 28 February was established for the processing of reports from vessel operators covering the prior year's completed movements. Hence, reports of movements completed in 1986 but not reported to the Corps of Engineers until after 28 February 1987 will be included in the next year's, 1987, statistics rather than in this publication, while reports of movements completed in 1985 but reported to the Corps after 28 February 1986 are included in this publication.

Sponsored by the Office of Statistical Policy, Office of Management and Budget, a uniform system of classification for freight was developed with cooperation of all Federal agencies engaged in collecting and compiling data on shipping. This classification, the Commodity Classification for Domestic Waterborne Commerce, is used for data on the foreign and domestic commerce presented in these publications, although some minor modifications exist in the foreign data which were necessitated by Bureau of the Census policies and procedures.

The domestic traffic includes all commercial movements between points in the United States, Puerto Rico, and the Virgin Islands. Traffic with the Panama Canal Zone is treated as foreign commerce. Cargo moved for the military agencies in commercial vessels is reported as ordinary commercial cargo; military cargo moved in Department of Defense vessels is omitted from these statistics.

All movements between the United States and foreign countries and between Puerto Rico and Virgin Islands, U.S.A., and foreign countries are classified as foreign traffic. Trade between United States territories and possessions, i.e. Guam, Wake, American Samoa, etc., and foreign countries is excluded.

These data are furnished to the Corps of Engineers by the Bureau of the Census under a working arrangement sponsored by the Office of Statistical Policy, Office of Management and Budget. The data are confined to movements by water, and are reconcilable with published reports of the Bureau of the Census. Shipments of domestic merchandise and re-exports of foreign merchandise are termed exports. The imports include inbound merchandise for direct consumption and entries into custom bonded storage and manufacturing warehouses. Intransit merchandise, defined by the Bureau of the Census as merchandise coming into the United States from a foreign country and shipped to a foreign country without having been entered as an import, is treated as an import when unloaded from a vessel and as an export when loaded on a vessel. Export shipments for use of the United States Armed Forces abroad are excluded from the statistics as are import shipments on Department of Defense owned and operated vessels. Foreign trade data of territories and possessions other than Puerto Rico and the Virgin Islands, which are under the jurisdiction of the Department of the Interior, were not furnished to the Corps of Engineers by the Bureau of the Census and are excluded from the statistics of both agencies.

Export shipments under the various foreign aid programs on Department of Defense operated vessels, either American Flag commercial vessels under time, voyage, or space charter or vessels owned and operated by the Department of Defense, and various items (listed by the Census) which affect national security are not published in terms of the individual commodities shipped. Instead, a lump-sum tonnage figure is compiled and appears in these tables as commodity code 9999, "Department of Defense Controlled Cargo and Special Category Items."

The 1986 statistics on waterborne exports of domestic and foreign merchandise and non-Department of Defense shipments of Special Category commodities reflect fully compiled data for shipments to Canada individually valued at \$2,000 and over combined with estimated data for shipments valued \$251-\$1,999, based on a 10-percent sample of such shipments. For countries other than Canada, the export statistics reflect fully compiled data for shipments valued \$1,000 and over combined with estimated data for shipments valued \$251-\$999, based on a 50-percent sample of such shipments. Data on export shipments valued under \$251 are excluded from this report.

Import statistics for 1986 exclude data on shipments valued \$250 and under reported on both formal and informal entries. Informal entries generally contain items valued not more than \$250.

Foreign trade data furnished by Census are based on reports processed for Census' monthly data January through December and represent statistical year rather than calendar year data.

VIII

Waterborne Commerce of the United States, 1986

The figures on ton-miles are computed by the Corps of Engineers; each ton-mile figure reflects only the distance each ton of cargo, foreign or domestic, moved on the waterway described in the section for which the figure is reported. The summary of ton-miles for the entire United States contained in Part 5 includes movements on the inland waterways and Great Lakes System only, cargoes, foreign and domestic, of deep-sea vessels are included only for that portion of the voyage that occurred in inland rivers, canals, or connecting channels—neither the carriage on the oceans nor the Gulf of Mexico nor the tonnage moved among the territories and possessions, "Intra-territory Traffic," is taken into account.

Trips of vessels at ports are reported as inbound, which represents the number of entrances or arrivals, and outbound, which represents the number of clearances or departures. On the waterways, the number of trips signifies the number of individual vessel movements on the waterway in each direction; a single trip is counted for each vessel using the waterway in a continuous direction regardless of the number of stops made on the waterway. Some towboat trips and empty barge moves are sampled to expedite processing and reduce cost. Even with sampling; however, the number of towboat trips are calculated from better than 70-percent of the total number of towboat moves reported and the number of barge trips are derived from better than 85-percent of the total number of barge moves reported. The number of trips reported includes vessels engaged in foreign trade, which are furnished by the Bureau of the Census based on Customs Entrance and Clearance forms. Complete information on trips of vessels, ferry and other, not required to clear formally was not furnished by the Bureau of Customs beginning with data for the year 1969. Adjustments are made to the trip counts, if necessary, to more accurately reflect actual traffic patterns (e.g. inbound vs. outbound trip counts).

Customs regulations with regard to entrance and clearance do not provide all data as required by the Corps of Engineers where supplementary information could be obtained, adjustments were made by the Corps of Engineers to reflect the true volume of vessel movements in and out of channels and harbors reported in these publications.

Excluding from these figures are United States Army and Navy vessels, such as Army transports and Navy tankers entering or clearing without commercial cargo, and foreign military and naval craft.

Some duplication may exist in the number of vessel trips at ports for those American flag vessels engaging both foreign and domestic trade on the same voyage. Since movements of vessels and cargo between two United States ports are reported to the Corps of Engineers, and entrance and clearance must be obtained from Customs at each port of call while foreign cargoes are aboard, those vessels engaged in combined foreign and domestic movements may be reported twice.

Draft, in all cases, is the distance from water level to the lowest point of the vessel under-water and is measured when the vessel is completely stopped—either tied to a dock or at anchor. The draft under way—while the vessel is moving—is dependent on many factors, such as speed of the vessel and depth and width of the channel, and varies from channel to channel. Channel depth of at least 3 feet more than the draft of a vessel at dock is required where vessels must be operated at slow speed. Channel depth of 5 feet more than the draft of a vessel at dock is required in channels where vessels can be operated at more efficient and economical speeds.

Passenger arrivals and departures on the various waterways and channels and at ports include passengers engaged in foreign travel. While the Immigration and Naturalization Service, Department of Justice, no longer provides foreign passenger data to the Waterborne Commerce Statistics Center, foreign passengers traveling between Canada and the United States in the Great Lakes and Alaska areas are reported to the Corps of Engineers from other sources available to the Corps. In addition, the New England Division has been able to obtain foreign passenger data for calendar year 1986 in Bar Harbor, Lubec, Eastport and Portland Harbor.

Foreign data on various connecting channels having no terminal facilities, such as Cape Cod Canal, and Chesapeake and Delaware Canal, are not available from Census records. Hence, the Corps of Engineers developed such data from canal records.

SECTION 1 of this publication presents comparative statements of commerce for preceding years and the detailed freight traffic for calendar year 1986 of harbors and waterways in the area covered by this part of the statistics series.

SECTION 2 presents data on the movements of vessels at the harbors and on the waterways included in the first section.

TERMS FOR KIND OF TRAFFIC

The terms applied to the kinds of traffic as found in these publications are explained as follows:

Pertaining to Ports

Imports and Exports. These terms apply to traffic between the United States and foreign ports, including the Canal Zone. Traffic of the U.S. Great Lakes ports with Canada is supplemented by the term "Canadian" to differentiate it from overseas traffic.

Coastwise Receipts and Shipments. These terms apply to domestic traffic receiving a carriage over the ocean, or the Gulf of Mexico, e.g. New Orleans to Baltimore, New York to Puerto Rico, San Francisco to Hawaii, or Puerto Rico to Hawaii. Traffic between Great Lakes ports and seacoast ports, when having a carriage over the ocean, is also termed "coastwise." The Chesapeake Bay and Puget Sound are internal bodies of water, therefore, traffic confined to these areas in "internal" rather than "coastwise."

Lake-wise Receipts and Shipments. These terms apply to traffic between United States ports on the Great Lakes System. The Great Lakes System is treated as a separate system rather than as a part of the inland system.

Internal Receipts and Shipments. These terms apply to traffic between ports or landings wherein the entire movement takes place on inland waterways. Also termed internal are movements involving carriage on both inland waterways and waters of the Great Lakes; inland movements that cross short stretches of open waters which link inland systems; marine products, sand and gravel taken directly from beds of the oceans, the Gulf of Mexico and important areas thereof; and movements between offshore installations and inland waterways.

Local. Movements of freight within the confines of a port whether the port has only one or several areas or channels, except car-ferry and general ferry are termed "local." The term is also applied to marine products, sand, and gravel taken directly from the Great Lakes.

Intrateritorial receipts and shipments. These terms apply to traffic between ports in Puerto Rico and the Virgin Islands, U.S.A., which are considered a single unit.

Pertaining to Rivers, Federal and Private Canals, Connecting Channels, and Intracoastal Waterways

The terms "imports," "exports," "coastwise receipts," "coastwise shipments," "internal receipts," and "internal shipments" are used as at ports.

Upbound and Downbound. These terms are applied to movements within the confines of a river, intracoastal waterway, canal, or a segment of one of these channels as described in the "Section included" for each channel.

Inbound and Outbound. Traffic moving from one waterway into another is termed "outbound" in the case of the shipping waterway and "inbound" with respect to the receiving waterway.

Through Traffic. Traffic moving through a waterway to and from points on other waterways is termed "through traffic."

General Terms

Freight reported under the terms "car ferry" or "general ferry" is not directly included in the port or channel tonnage, but is separately stated and tabulated.

COMMODITY CLASSIFICATION FOR DOMESTIC WATERBORNE COMMERCE

NOTE: The commodity descriptions used in the statistical tables in this publication are abbreviated to conserve printing space of the following commodities.

Code No.	Item Name	Code No.	Item Name
Group 01-Farm Products		Group 20-Food and Kindred Products	
0101	Cotton, raw	2034	Vegetables and preparations, canned and otherwise prepared and preserved
0102	Barley and rye	2039	Fruits, and fruit and vegetable juices, canned and otherwise prepared or preserved
0103	Corn	2041	Wheat flour and semolina
0104	Oats	2042	Animal feeds
0105	Rice	2049	Grain mill products, not elsewhere classified
0106	Sorghum Grains	2051	Sugar
0107	Wheat	2052	Molasses
0111	Soybeans	2081	Alcoholic beverages
0112	Flaxseed	2091	Vegetable oils, all grades; margarine and shortening
0119	Oilseeds, not elsewhere classified	2092	Animal oils and fats, not elsewhere classified, including marine
0121	Tobacco, leaf	2094	Groceries
0122	Hay and Fodder	2095	Ice
0129	Field crops, not elsewhere classified	2099	Miscellaneous food products
0131	Fresh fruits		
0132	Bananas and plantains		
0133	Coffee, green and roasted (including instant)		
0134	Cocoa beans		
0141	Fresh and frozen vegetables		
0151	Live animals (livestock) except swine, animals, cats, dogs, etc.		
0161	Animals and animal products, not elsewhere classified		
0191	Miscellaneous farm products		
Group 08-Forest Products		Group 21-Tobacco Products	
0841	Crude rubber and allied gums	2111	Tobacco manufactures
0861	Forest products, not elsewhere classified		
Group 09-Fresh Fish and Other Marine Products		Group 22-Basic Textiles	
0911	Fresh fish, except shellfish	2211	Basic textile products, except textile fibers
0912	Shellfish, except prepared or preserved	2212	Textile fibers not elsewhere classified
0913	Monhaden		
0931	Marine shells, unmanufactured		
Group 10-Metallic Ores		Group 23-Apparel and Other Finished Textile Products Including Knit	
1011	Iron ore and concentrates	2311	Apparel and other finished textile products, including knit
1021	Copper ore and concentrates		
1051	Bauxite and other aluminum ores and concentrates		
1061	Manganese ores and concentrates		
1091	Nonferrous metal ores and concentrates, not elsewhere classified		
Group 11-Coal		Group 24-Lumber and Wood Products Except Furniture	
1121	Coal and lignite	2411	Logs
		2412	Rafted logs
		2413	Fuel wood, charcoal, and wastes
		2414	Timber, posts, poles, piling, and other wood in the rough
		2415	Pulpwood, log
		2416	Wood chips, staves, moldings, and exelisor
		2421	Lumber
		2431	Veneer, plywood, and other worked wood
		2491	Wood manufactures, not elsewhere classified
Group 13-Crude Petroleum		Group 25-Furniture and Fixtures	
1311	Crude petroleum	2511	Furniture and fixtures
Group 14-Nonmetallic Minerals, Except Fuels		Group 26-Pulp, Paper and Allied Products	
1411	Limestone flux and calcareous stone	2611	Pulp
1412	Building stone, unworked	2621	Standard newsprint paper
1442	Sand, gravel and crushed rock	2631	Paper and paperboard
1451	Clay, ceramic and refractory materials	2691	Pulp, paper and paperboard products, not elsewhere classified
1471	Phosphate rock		
1479	Natural fertilizer materials, not elsewhere classified		
1491	Salt		
1492	Sulphur, dry		
1493	Sulphur, liquid		
1494	Gypsum, crude and plasters		
1499	Nonmetallic minerals, except fuels, not elsewhere classified		
Group 19-Ordinance and Accessories		Group 27-Printed Matter	
1911	Ordinance and accessories	2711	Printed matter
Group 20-Food and Kindred Products		Group 28-Chemicals and Allied Products	
2011	Meat, fresh, chilled, or frozen	2810	Sodium hydroxide (caustic soda)
2012	Meat and meat products prepared or preserved, including canned meat products	2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene
2014	Tallow, animal fats and oils	2812	Dyes, organic pigment, dyeing and tanning materials
2015	Animal by-products, not elsewhere classified	2813	Alcohols
2021	Dairy products, except dried milk and cream	2816	Radioactive and associated materials, including wastes
2022	Dried milk and cream	2817	Benzene and toluene, crude and commercially pure
2031	Fish and fish products, including shellfish, prepared or preserved	2818	Sulphuric acid
		2819	Basic chemicals and basic chemical products, not elsewhere classified
		2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates
		2822	Synthetic rubber
		2823	Synthetic (man-made) fiber
		2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)
		2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics, and other toilet preparations
		2851	Paints, varnishes, lacquers, enamels, and allied products
		2861	Gum and wood chemicals
		2871	Nitrogenous chemical fertilizers, except mixtures
		2872	Potassic chemical fertilizers, except mixtures
		2873	Phosphatic chemical fertilizers, except mixtures

X

Waterborne Commerce of the United States, 1986

Code No.	Item Name	Code No.	Item Name
Group 28-Chemicals and Allied Products		Group 34-Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment	
2876	Insecticides, fungicides, pesticides, and disinfectants	3411	Fabricated metal products, except ordnance, machinery, and transportation equipment
2879	Fertilizers and fertilizer materials, not elsewhere classified		
2891	Miscellaneous chemical products		
Group 29-Petroleum and Coal Products		Group 35-Machinery, Except Electrical	
2911	Gasoline, including natural gasoline	3511	Machinery, except electrical
2912	Jet fuel		
2913	Kerosene	Group 36-Electrical Machinery, Equipment and Supplies	
2914	Distillate fuel oil	3611	Electrical machinery equipment and supplies
2915	Residual fuel oil		
2916	Lubricating oils and greases		
2917	Naphtha, mineral spirits, solvents, not elsewhere classified		
2918	Asphalt, tar, and pitches	3711	Motor vehicles, parts and equipment
2920	Coke, including petroleum coke		
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids		
2951	Asphalt building materials		
2991	Petroleum and coal products, not elsewhere classified	3721	Aircraft and parts
Group 30-Rubber and Miscellaneous Plastic Products		3731	Ships and boats
3011	Rubber and miscellaneous plastic products	3791	Miscellaneous transportation equipment
		Group 38-Instruments, Photographic and Optical Goods, Watches and Clocks	
Group 31-Leather and Leather Products		3811	Instruments, photographic and optical goods, watches and clocks
3111	Leather and leather products	Group 39-Miscellaneous Products of Manufacturing	
		3911	Miscellaneous products of manufacturing
Group 40-Waste and Scrap Materials			
Group 32-Stone, Clay, Glass and Concrete Products		4011	
3211	Glass and glass products	4012	Nonferrous metal scrap
3241	Building cement	4022	Textile waste, scrap, and sweepings
3251	Structural clay products, including refractories	4024	Paper waste and scrap
3271	Lime	4029	Waste and scrap, not elsewhere classified
3281	Cut stone and stone products	Group 41-Special Items	
3291	Miscellaneous nonmetallic mineral products	4111	Water
Group 33-Primary Metal Products		4112	Miscellaneous shipments not identifiable by commodity
3311	Pig iron	4113	LCL freight
3312	Slag	4118	Materials used in waterway improvement, Government materials
3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents	4119	Empty containers
3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron	9999*	Department of Defense controlled cargo and special category items
3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling	*Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U.S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SCi) for which commodity detail is not furnished to the Corps of Engineers.	
3316	Iron and steel plates and sheets		
3317	Iron and steel pipe and tube		
3318	Ferroalloys		
3319	Primary iron and steel products, not elsewhere classified including castings in the rough		
3321	Nonferrous metals primary smelter product, basic shapes, wire castings and forgings, except copper, lead, zinc and aluminum		
3322	Copper and copper alloys, whether or not refined, unworked		
3323	Lead and zinc including alloys, unworked		
3324	Aluminum and aluminum alloys, unworked		

SECTION 1

FREIGHT TRAFFIC

LOS ANGELES, CA, DISTRICT

3

SAN DIEGO HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR. CONTROLLING AND PROJECT DEPTHS: 42 FEET IN ENTRANCE CHANNEL; 35 TO 42 FEET IN RAY CHANNEL, ANCHORAGES AND TURNING BASIN; 10 TO 16 FEET IN OTHER CHANNELS AND AREAS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	2,264,445	1982	2,398,103
1978	2,571,402	1983	1,121,952
1979	2,401,349	1984	1,803,821
1980	2,188,859	1985	2,873,186
1981	2,650,222	1986	2,343,960

* PASSENGERS--540,429.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL	2,343,960	620,011	463,140	593,462	8,224	59,423	18,900	580,800
0102 BARLEY AND RYE	2,005		2,005					
0107 WHEAT	5,220		5,220					
0119 OILSEEDS, NEC	1,247		1,247					
0131 FRESH FRUITS	1,574	1,574						
0141 FRESH AND FROZEN VEGETABLES	247	247						
0861 FOREST PRODUCTS, NEC	63,314	3,516				59,423		
0912 SHELLFISH, EXCEPT PREPARED	26	26						
1021 COPPER ORE AND CONCENTRATES	201,118		201,118					
1121 COAL AND LIGNITE	22,027		22,027					
1311 CRUDE PETROLEUM	38,682	38,682						
1499 NONMETALLIC MINERALS, NEC	5,493		5,493					
2039 PREP FRUIT AND VEG JUICE, NEC	24,116	24,116						
2081 ALCOHOLIC BEVERAGES	46	46						
2099 MISCELLANEOUS FOOD PRODUCTS	86	86						
2211 NASTIC TEXTILE PRODUCTS	34	34						
2311 APPAREL	71	71						
2421 LUMBER	254,142	11,552		202,590				
2491 WOOD MANUFACTURES, NEC	31	11		20				
2511 FURNITURE AND FIXTURES	7	7						
2611 PULP	3,627		3,627					
2621 STANDARD NEWSPRINT PAPER	59,350	59,350						
2691 PULP AND PAPER PRODUCTS, NEC	1	1						
2819 BASIC CHEMICALS AND PROD, NEC	14,897	14,897						
2861 SOAP	12	2	10					
2871 NITROGENOUS CHEM FERTILIZERS	46,922	46,922						
2872 POTASSIC CHEM FERTILIZERS	92,076		92,076					
2911 GASOLINE	14,541			14,541				
2912 JET FUEL	29,827			29,827				
2914 DISTILLATE FUEL OIL	8,524			8,524				
2915 RESIDUAL FUEL OIL	337,909			337,909				
2916 LUBRICATING OILS AND GREASES	4		4		6,624			
3011 RUBBER AND MISC PLASTIC PROD	1	1						
3111 LEATHER AND LEATHER PRODUCTS	51	51						
3211 GLASS AND GLASS PRODUCTS	24	24						
3241 BUILDING CEMENT	375,145	375,145						
3251 STRUCTURAL CLAY PRODUCTS	14	14						
3291 MISC NONMETALLIC MINERAL PROD	1	1						
3411 FABRICATED METAL PRODUCTS	26	2	17					
3511 MACHINERY, EXCEPT ELECTRICAL	1,896	1,896	30					
3611 ELECTRICAL MACH AND EQUIP	55	55						
3711 MOTOR VEHICLES, PARTS, EQUIP	503	503						
3721 AIRCRAFT AND PARTS	4		4					
3731 SHIPS AND BOATS	37	37						
3811 INSTR, TIME, PHOTO, OPT GOODS	6	6						
3911 MISC MANUFACTURED PRODUCTS	75	75						
4011 IRON AND STEEL SCRAP	85,240		85,240					
4029 WASTE AND SCRAP, NEC	601,370				1,600		18,900	580,800
4112 COMMODITIES, NEC	141	141						

LONG BEACH HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LONG BEACH. CONTROLLING DEPTHS: 62 FEET IN LONG BEACH CHANNEL AND ENTRANCE CHANNEL; 50 FEET TO 55 FEET IN OTHER CHANNELS AND BASINS. PROJECT DEPTHS: 35 FEET IN LONG BEACH CHANNEL, AND OTHER CHANNELS AND BASINS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	42,985,424	1982	42,010,254
1978	31,526,104	1983	41,112,584
1979	33,347,503	1984	42,848,658
1980	38,779,672	1985	43,977,333
1981	43,537,211	1986	42,718,268

* PASSENGERS--903,451.

Waterborne Commerce of the United States, 1986

LONG BEACH HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	42,718,268	9,981,865	7,221,002	17,233,420	503,719	17,404,643	131,247	415,542
0101 COTTON, RAW-----	208,970		208,970					
0102 BARLEY AND RYE-----	227	87	140					
0103 CORN-----	1,164		1,164					
0106 RICE-----	23,607	19,598	4,009					
0106 SORGHUM GRAINS-----	71		71					
0107 WHEAT-----	36,136							
0111 SOYBEANS-----	4,087							
0119 OILSEEDS, NEC-----	18,067	1,710	16,357					
0121 TOBACCO, LEAF-----	3,393	2,705	688					
0129 FIELD CROPS, NEC-----	10,148	1,913	7,135					
0131 FRESH FRUITS-----	373,909	591	373,318					
0132 BANANAS AND PLANTAINS-----	312,113	312,113						
0133 COFFEES-----	41,182	26,871	14,311					
0134 COCOA BEANS-----	382							
0141 FRESH AND FROZEN VEGETABLES-----	34,447	5,078	29,369					
0161 ANIMALS AND PRODUCTS, NEC-----	12,117	5,388	6,729					
0191 MISCELLANEOUS FARM PRODUCTS-----	6,411	881	5,530					
0841 CRUDE RUBBER AND ALLIED GUMS-----	18,667	18,549	118					
0861 FOREST PRODUCTS, NEC-----	7,151	5,910	1,241					
0911 FRESH FISH, EXCEPT SHELLFISH-----	17,579	15,445	2,134					
0912 SHELLFISH, EXCEPT PREPARED-----	32,246	29,721	2,525					
0931 MARINE SHELLS, UNMANUFACTURED-----	2,118	650	1,468					
1011 IRON ORE AND CONCENTRATES-----	20		20					
1021 COPPER ORE AND CONCENTRATES-----	24,173		24,173					
1051 ALUMINUM ORES, CONCENTRATES-----	17,527	1,258	16,269					
1061 MANGANESE ORES, CONCENTRATES-----	414		414					
1091 NONFERROUS ORES, CONCENT, NEC-----	10,368	7,938	2,430					
1121 COAL AND LIGNITE-----	122,186		122,186					
1311 CRUDE PETROLEUM-----	17,076,629	591,458	16,485,171			15,451	23,486	59,090
1411 LIMESTONE-----	23		23					
1412 BUILDING STONE, UNWORKED-----	39		39					
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,979	752	1,227					
1451 CLAY-----	13,398	1,864	11,534					
1471 PHOSPHATE ROCK-----	467	60	407					
1479 NATURAL FERTILIZER MATS, NEC-----	2,212	2,212						
1491 SALT-----	134,260	134,250	10					
1492 SULPHUR, DRY-----	46,576		46,576					
1494 GYPSUM, CRUDE AND PLASTERS-----	646,496	645,047	1,449					
1499 NONMETALLIC MINERALS, NEC-----	119,179	1,856	117,323					
1911 ORNAMENTAL AND ACCESSORIES-----	1,360	913	447					
2011 MEAT, FRESH, CHILLED, FROZEN-----	131,596	61,303	70,293					
2012 MEAT AND PRODUCTS, NEC-----	10,000	7,194	2,806					
2014 TALLOW, ANIMAL FATS AND OILS-----	49,144		49,144					
2015 ANIMAL BY-PRODUCTS, NEC-----	98,854	64	98,790					
2021 DAIRY PRODUCTS, NEC-----	1,295	876	419					
2022 DRIED MILK AND CREAM-----	5,278	191	5,087					
2031 FISH AND SHELLFISH, PREPARED-----	59,080	54,120	4,960					
2034 VEGETABLES AND PREP, NEC-----	74,645	65,667	8,978					
2039 PREP FRUIT AND VEG JUICE, NEC-----	104,315	53,256	51,059					
2041 WHEAT FLOUR AND SEMOLINA-----	3		3					
2042 ANIMAL FEEDS-----	161,825	11,445	150,380					
2049 GRAIN MILL PRODUCTS, NEC-----	27,894	18,255	9,639					
2061 SUGAR-----	114	34	80					
2081 ALCOHOLIC BEVERAGES-----	82,621	73,792	8,829		201			
2091 VEGETABLE OILS, MARG, SHORT-----	30,519	23,283	7,236					
2092 ANIMAL OILS AND FATS, NEC-----	296	259	37					
2094 GROCERIES-----	473					473		
2095 ICE-----	8,521	8,521						
2099 MISCELLANEOUS FOOD PRODUCTS-----	113,422	65,123	47,299					
2111 TOBACCO MANUFACTURES-----	4,257	276	3,981					
2211 BASIC TEXTILE PRODUCTS-----	146,367	137,153	9,214		82			
2212 TEXTILE FIBERS, NEC-----	5,845	2,126	3,719					
2311 APPAREL-----	200,597	200,077	520					
2411 LOGS-----	2,785	1,322	1,463					
2413 FUEL WOOD, CHARCOAL, WASTES-----	2,388	1,123	1,265					
2414 TIMBER, POSTS, POLES, PILING-----	1,033	222	811					
2415 PULPWOOD, LOG-----	98		98					
2416 WOOD CHIPS, STAVES, MULDINGS-----	5,816	3,247	2,569					
2421 LUMBER-----	206,885	103,730	111,585	91,570				
2431 VENEER, PLYWOOD, WORKED WOOD-----	56,447	53,411	3,036					
2471 WOOD MANUFACTURES, NEC-----	61,678	47,219	14,459	6,231	987			
2511 FURNITURE AND FIXTURES-----	258,522	256,160	2,362					
2611 PULP-----	19,555	1,862	17,693					
2621 STANDARD NEWSPRINT PAPER-----	217,414	215,142	2,272					
2631 PAPER AND PAPERBOARD-----	129,650	72,070	57,580					
2691 PULP AND PAPER PRODUCTS, NEC-----	24,079	17,662	6,417		1,738			
2711 PRINTED MATTER-----	29,199	22,173	7,026					
2810 SODIUM HYDROXIDE-----	41,862		41,862					
2811 CRUDE TAP, OIL, GAS PRODUCTS-----	3,384	3,235	149					
2812 DYES, PIGMENT, TANNING MATS-----	1,165		1,165					
2813 ALCOHOLS-----	4,532	2,095	2,437					
2816 RADIOACTIVE MATERIALS, WASTES-----	22		22					
2817 BENZENE AND TOLUENE-----	13,901	13,867	34					
2819 BASIC CHEMICALS AND PROD, NEC-----	992,448	379,402	581,102	31,610	330			
2821 PLASTIC MATERIALS-----	333,842	70,204	263,638					
2822 SYNTHETIC RUBBER-----	19,293		19,293					
2823 SYNTHETIC (MAN-MADE) FIBERS-----	5,465	3,839	1,626					
2831 OILS-----	7,316	4,215	3,101					
2841 SOAP-----	23,592	5,804	17,788					
2851 PAINTS-----	26,369	17,341	9,028					
2861 GUM AND WOOD CHEMICALS-----	2,720	766	1,954					
2971 INORGANOUS CHEM FERTILIZERS-----	1,295	180	1,115					

LOS ANGELES, CA, DISTRICT

5

LONG BEACH HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2872 POTASSIC CHEM FERTILIZERS-----	97,801	20	97,781	-----	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	518	479	39	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	4,114	624	3,490	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	2,346	173	2,175	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	35,416	10,875	19,971	-----	4,570	-----	-----	-----
2911 GASOLINE-----	473,125	26,066	46,538	343,563	48,512	62	8,523	41
2912 JET FUEL-----	64,959	-----	17,767	31,970	15,222	-----	-----	-----
2913 KEROSENE-----	41	-----	41	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	1,046,174	-----	400,127	226,225	194,416	71,964	152,560	2,882
2915 RESIDUAL FUEL OIL-----	6,069,501	399	554,335	45,788	138,405	4,310,010	695,080	325,484
2916 LUBRICATING OILS AND GREASES-----	202,465	4,205	190,187	-----	-----	4,050	9	14
2917 NAPHTHA, PETROLEUM SOLVENTS-----	60,370	22,314	238	20,503	-----	-----	7,638	9,677
2918 ASPHALT, TAR, AND BITUMENS-----	686	22	626	-----	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	4,237,711	-----	4,237,711	-----	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	685	48	637	-----	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	427	-----	427	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	42,664	407	1,269	13,285	8,535	943	-----	18,245
3011 RUBBER AND MISC PLASTIC PROD-----	310,341	295,582	14,759	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	197,624	194,249	3,380	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	48,640	40,985	5,655	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	769,872	769,728	64	80	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	34,605	30,564	4,041	-----	-----	-----	-----	-----
3271 LIME-----	12	3	9	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	23,575	23,459	116	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	100,725	93,876	6,849	-----	-----	-----	-----	-----
3311 PIG IRON-----	286	-----	-----	-----	-----	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	333,989	333,871	118	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,113,015	1,111,955	1,060	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	2,947	694	2,253	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	204,659	200,837	3,818	4	-----	-----	-----	-----
3318 FERROALLOYS-----	10,072	9,403	269	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	12,561	11,570	991	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	13,493	5,258	8,235	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	19,563	14,214	5,349	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	31,398	25,758	5,640	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	56,365	43,834	12,531	-----	12	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	432,950	403,638	18,402	-----	10,902	8	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	542,055	471,379	69,877	4	196	455	60	84
3611 ELECTRICAL MACH AND EQUIP-----	770,100	749,881	26,168	-----	51	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	659,221	633,263	25,922	-----	-----	37	-----	-----
3721 AIRCRAFT AND PARTS-----	3,648	451	3,019	-----	178	-----	-----	-----
3731 SHIPS AND BOATS-----	8,687	7,812	875	-----	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	2,241	970	1,268	-----	-----	3	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	99,279	86,799	12,480	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	394,711	388,653	6,058	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	89,663	122	89,541	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	84,666	3,236	81,430	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	10,319	362	9,957	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	604,298	113	604,185	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	70,200	-----	-----	-----	-----	70,200	-----	-----
4111 WATER-----	25	-----	-----	-----	-----	-----	-----	25
4112 COMMODITIES, NEC-----	117,812	18,561	28,305	194	70,321	105	246	-----
4119 EMPTY CONTAINERS-----	13	-----	-----	-----	-----	12	1	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,326	-----	1,326	-----	-----	-----	-----	-----

LOS ANGELES HARBOR, CALIF.

SECTION INCLUDED: ENTIRE HARBOR WITHIN THE CITY LIMITS OF LOS ANGELES. CONTROLLING DEPTHS: 45 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 45 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS. PROJECT DEPTHS: 45 TO 51 FEET IN ENTRANCE AND OUTER HARBOR CHANNELS AND BASINS; 45 FEET IN LOS ANGELES CHANNEL AND INNER HARBOR BASINS AND CHANNELS.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	31,375,506	603,847	1982-----	33,099,929	582,302
1978-----	32,821,478	586,831	1983-----	28,034,681	431,184
1979-----	31,749,483	624,289	1984-----	31,242,369	659,753
1980-----	30,151,053	699,175	1985-----	36,373,907	589,161
1981-----	31,526,075	712,290	1986-----	39,659,449	330,447

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	39,659,449	10,416,681	8,455,952	9,075,406	3,200,847	957,905	4,442,664	3,309,998
0101 COTTON, RAW-----	229,463		229,463					
0102 BARLEY AND RYE-----	565	18	567					
0103 CORN-----	3,476	19	3,457					
0104 OATS-----	31		31					
0105 RICE-----	24,170	23,301	255		618			
0106 SORGHUM GRAINS-----	530		530					
0107 WHEAT-----	4,385	7	4,378					

LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
0111 SOYBEANS-----	5,393	-----	5,393	-----	-----	-----	-----	-----
0119 GILSEEDS, NEL-----	9,232	550	9,682	-----	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	3,341	117	3,224	-----	-----	-----	-----	-----
0129 FIELD CROPS, NEC-----	9,110	3,876	5,234	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	262,918	4,105	190,609	58,333	9,671	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	274,710	269,399	-----	-----	5,311	-----	-----	-----
0133 COFFEE-----	18,914	17,796	1,023	45	50	-----	-----	-----
0134 COCOA BEANS-----	219	218	1	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	64,623	3,346	22,575	1,776	36,926	-----	-----	-----
0151 LIVE ANIMALS-----	262	48	14	-----	200	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	12,376	1,875	9,112	-----	1,389	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1,999	1,372	627	-----	-----	-----	-----	-----
0211 CRUDE RUBBER AND ALLIED GUMS-----	21,413	21,211	202	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	10,208	4,989	1,919	3,279	21	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	28,256	26,722	1,534	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	38,913	34,327	1,922	95	2,569	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	1,631	631	1,200	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	4	4	-----	-----	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	308,557	15,957	292,600	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	5,235	5,065	170	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	5,247	1,855	2,562	-----	830	-----	-----	-----
1121 COAL AND LIGNITE-----	906,683	15	906,668	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	4,337,688	555,076	8	3,683,612	54,713	23,486	15,431	5,362
1411 LIMESTONE-----	206	44	162	-----	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	84	-----	84	-----	-----	-----	-----	-----
1422 SAND, GRAVEL, CRUSHED ROCK-----	8,059	2,693	1,766	-----	3,600	-----	-----	-----
1451 CLAY-----	15,816	2,224	13,266	-----	300	-----	-----	-----
1471 PHOSPHATE ROCK-----	540	84	456	-----	-----	-----	-----	-----
1491 SALT-----	1,891	1,891	-----	-----	-----	-----	-----	-----
1492 SULPHUR, DRY-----	489,369	-----	489,369	-----	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	6,189	62	1,740	-----	6,387	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	118,965	3,111	115,854	-----	-----	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	4,362	3,174	1,188	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	173,709	32,536	80,531	887	59,755	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	19,651	17,072	2,579	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	4,239	-----	4,239	-----	-----	-----	-----	-----
2015 DAIRY PRODUCTS, NEC-----	141,742	68	141,304	370	-----	-----	-----	-----
2021 DRIED MILK AND CREAM-----	6,142	1,710	417	-----	4,015	-----	-----	-----
2022 FISH AND SHELLFISH, PREPARED-----	7,213	63	7,150	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, NEC-----	48,768	45,208	3,556	-----	-----	-----	-----	-----
2034 VEGETABLES AND PHEP, NEC-----	66,992	27,871	5,522	2,526	31,073	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	199,053	88,728	41,964	64,680	3,681	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	1,168	-----	1,082	-----	86	-----	-----	-----
2042 ANIMAL FEEDS-----	352,634	5,815	323,766	-----	23,053	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	67,186	14,794	52,392	-----	-----	-----	-----	-----
2061 SUGAR-----	60	60	-----	-----	23	-----	-----	-----
2062 MOLASSES-----	143,624	15,089	252	55,702	9,193	-----	-----	63,388
2081 ALCOHOLIC BEVERAGES-----	238,443	123,883	8,856	136	105,568	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	55,050	30,827	5,693	49	10,481	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	1,127	1,102	25	-----	-----	-----	-----	-----
2094 GROCERIES-----	35,841	-----	121	35,042	473	-----	-----	205
2095 ICE-----	19,957	19,928	29	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	103,724	47,795	41,555	1,295	13,079	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	7,190	370	5,186	-----	1,634	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	147,228	137,710	6,805	22	2,691	-----	-----	-----
2212 TEXTILE FIBERS, NEC-----	4,582	356	4,226	-----	-----	-----	-----	-----
2311 APPAREL-----	245,088	244,389	699	-----	-----	-----	-----	-----
2411 LOGS-----	2,635	1,745	890	-----	-----	-----	-----	-----
2413 FUEL WOOD, CHAMCOAL, WASTES-----	3,323	249	1,788	37	1,209	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	4,693	4,670	23	-----	-----	-----	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	324	45	279	-----	-----	-----	-----	-----
2421 LUMBER-----	358,723	96,778	7,406	254,054	485	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	61,865	59,112	2,312	-----	481	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	58,607	42,613	13,620	-----	974	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	228,688	188,127	2,655	23,670	14,236	-----	-----	-----
2611 PULP-----	14,235	58	14,177	-----	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	135,571	128,804	6,767	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	153,090	119,583	27,271	11	6,225	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	36,974	13,647	4,690	17	18,420	-----	-----	-----
2711 PRINTED MATTER-----	32,278	25,725	3,436	-----	3,117	-----	-----	-----
2810 SODIUM HYDROXIDE-----	5,912	-----	5,912	-----	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	40,413	16,370	806	-----	23,237	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	2,082	-----	2,082	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	47,158	15,983	2,243	28,932	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	836	-----	251	585	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	59,381	59,331	50	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,460,987	691,783	724,114	41,331	3,759	-----	-----	-----
2821 PLASTIC MATERIALS-----	202,545	105,294	95,989	-----	1,262	-----	-----	-----
2822 SYNTHETIC RUBBER-----	19,445	1,851	17,594	-----	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	10,361	7,944	2,417	-----	-----	-----	-----	-----
2831 DRUGS-----	13,910	6,698	4,230	35	2,947	-----	-----	-----
2841 SOAP-----	39,434	7,705	19,503	18	12,208	-----	-----	-----
2851 PAINTS-----	32,039	17,954	7,484	-----	6,601	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	4,416	127	1,194	3,097	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	37,692	30,776	2,126	24	4,966	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	3,374	45	3,329	-----	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	43	20	23	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	10,486	1,299	8,389	-----	798	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	1,588	84	1,504	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	89,337	27,701	29,388	13,584	18,664	-----	-----	-----
2911 GASOLINE-----	3,078,401	881,103	13,941	1,829,427	326,285	8,523	82	19,040
2912 JET FUEL-----	625,049	163,367	-----	380,466	74,063	-----	-----	7,153
2913 KEROSENE-----	1,466	1,222	244	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	2,560,521	-----	399,359	1,117,631	696,674	152,560	71,964	122,333

LOS ANGELES, CA, DISTRICT

7

LOS ANGELES HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
2915 RESIDUAL FUEL OIL-----	11,369,752	99,220	1,110,844	898,742	1,166,712	695,080	4,310,010	3,089,144
2916 LUBRICATING OILS AND GREASES-----	528,956	55,724	84,982	352,527	28,876	9	4,050	2,788
2917 NAPHTHA, PETROLEUM SOLVENTS-----	219,924	105,806	115	79,512	27,053	7,638		
2918 ASPHALT, TAR, AND BITUMENS-----	19,602	24	93		19,445			
2920 COKE, PETROLEUM COKE-----	733,460		733,460					
2921 LIQUEFIED GASES-----	72,180	71,749	431					
2951 ASPHALT BUILDING MATERIALS-----	1,672		815		857			
2991 PETROLEUM AND COAL PROD, NEC-----	144,761	114	2,545	123,452	17,707		943	
3011 RUBBER AND MISC PLASTIC PROD-----	314,674	297,256	12,015	147	5,252			
3111 LEATHER AND LEATHER PRODUCTS-----	174,805	168,365	6,440					
3211 GLASS AND GLASS PRODUCTS-----	49,269	43,906	5,321	13	2,029			
3241 BUILDING CEMENT-----	166,928	162,825	233		3,870			
3251 STRUCTURAL CLAY PRODUCTS-----	127,319	123,438	2,108		1,773			
3271 LIME-----	19		19					
3281 CUT STONE AND STONE PRODUCTS-----	68,418	67,154	296		968			
3291 MISC NONMETALLIC MINERAL PROD-----	144,606	110,443	3,567		30,858			
3311 PIG IRON-----	6,830	8,808	22					
3312 SLAG-----	2,916	2,412			504			
3314 IRON AND STEEL PRIMARY FORMS-----	69,375	65,426	5,944					
3315 IRON, STEEL SHAPES, EXC SHEET-----	909,181	908,528	653					
3316 IRON AND STEEL PLATES, SHEETS-----	7,784	116	4,140	28	3,500			
3317 IRON AND STEEL PIPE AND TUBE-----	217,984	209,430	1,069		7,485			
3318 FERROALLOYS-----	2,753	2,176	577					
3319 IRON AND STEEL PRODUCTS, NEC-----	37,943	20,967	16,976					
3321 NONFERROUS METALS, NEC-----	13,318	4,829	8,466		23			
3322 COPPER ALLOYS, UNWORKED-----	21,210	19,052	2,158					
3323 LEAD AND ZINC, UNWORKED-----	11,649	9,504	2,123		22			
3324 ALUMINUM AND ALLOYS, UNWORKED-----	76,479	60,056	16,423					
3411 FABRICATED METAL PRODUCTS-----	471,723	437,663	18,848	2,560	12,662		8	2
3511 MACHINERY, EXCEPT ELECTRICAL-----	599,894	541,975	51,247	1,351	4,701	60	436	124
3611 ELECTRICAL MACH AND EQUIP-----	771,171	737,804	30,071	19	3,277			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,122,673	1,063,597	16,458	20,135	22,483			
3721 AIRCRAFT AND PARTS-----	4,174	1,074	3,052	11	37			
3731 SHIPS AND BOATS-----	10,767	9,550	985	55	177			
3791 MISC TRANSPORTATION EQUIPMENT-----	6,548	213	6,201	8	123			
3811 INSTR, TIME, PHOTO, OPT GOODS-----	73,410	67,692	5,718					
3911 MISC MANUFACTURED PRODUCTS-----	354,114	333,987	5,545	6,759	7,823			
4011 IRON AND STEEL SCRAP-----	1,289,755	423	1,283,868	5,464				
4012 NONFERROUS METAL SCRAP-----	111,099	962	110,137					
4022 TEXTILE WASTE, SCRAP, SWEEP-----	22,203	136	22,067					
4024 PAPER WASTE AND SCRAP-----	371,967	4	371,893	70				
4029 WASTE AND SCRAP, NEC-----	110,435			2,174		70,200	38,061	
4111 WATER-----	2,469			2,469				
4112 COMMODITIES, NEC-----	248,792	17,480	30,634	6,720	193,373	349	194	42
4119 EMPTY CONTAINERS-----	2,144			1,631	691		22	
9999 DEPARTMENT OF DEFENSE AND SCI-----	3,915		3,915					

PORT HUENEME, CALIF.

SECTION INCLUDED: HARBOR AT PORT HUENEME, PROJECT DEPTHS: 40 FEET IN APPROACH CHANNEL; 36 FEET IN ENTRANCE CHANNEL; 35 FEET IN CHANNEL BASIN AND CHANNEL A. CONTROLLING DEPTHS: 36 FEET IN APPROACH CHANNEL; 34 FEET IN ENTRANCE CHANNEL; 31 FEET IN CENTRAL BASIN AND CHANNEL A.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,875,743	1982-----	338,719
1978-----	958,668	1983-----	203,746
1979-----	1,180,424	1984-----	348,514
1980-----	1,405,744	1985-----	1,139,852
1981-----	1,527,774	1986-----	521,187

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	521,187	333,881	43,855	101,310	36,825	174	5,140	2
0107 WHEAT-----	11,498		11,498					
0129 FIELD CROPS, NEC-----	23,702		23,702					
0131 FRESH FRUITS-----	7,877	922	6,955					
0132 BANANAS AND PLANTAINS-----	111,709	111,709						
0141 FRESH AND FROZEN VEGETABLES-----	361		361					
1311 CRUDE PETROLEUM-----	29,030	29,030						
1442 SAND, GRAVEL, CRUSHED ROCK-----	3							8
1851 CLAY-----	3				3			
2031 FISH AND SHELLFISH, PREPARED-----	20	20						
2039 PREP FRUIT AND VEG JUICE, NEC-----	1,984	785	1,199					
2094 GROCERIES-----	3				3			
2098 MISCELLANEOUS FOOD PRODUCTS-----	23				23			
2111 BASIC TEXTILE PRODUCTS-----	19		19					
2311 APPAREL-----	32	32						
2421 LUMBER-----	38,710			38,710				

Waterborne Commerce of the United States, 1986

PORT HUENEME, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
2611 PULP-----	46,088	46,088	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	10	-----	-----	-----	-----	-----	10	-----
2911 GASOLINE-----	787	-----	-----	787	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	14,566	-----	-----	-----	14,566	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	60,859	-----	-----	60,859	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	126	-----	-----	126	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1	1	-----	-----	-----	-----	-----	-----
3291 BUILDING CEMENT-----	80	-----	-----	-----	80	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	1,183	1,169	-----	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	170	-----	23	1	-----	21	-----	13
3511 MACHINERY, EXCEPT ELECTRICAL-----	8,143	44	92	635	3,148	71	4,153	-----
3611 ELECTRICAL MACH AND EQUIP-----	120	10	6	22	37	-----	45	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	144,047	144,047	-----	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	2	-----	1	-----	-----	-----	1	-----
3911 MISC MANUFACTURED PRODUCTS-----	18,396	2	-----	30	18,344	-----	20	-----
4029 WASTE AND SCRAP, NEC-----	51	-----	-----	14	-----	37	-----	-----
4111 WATER-----	530	-----	-----	-----	1	-----	535	-----
4112 COMMODITIES, NEC-----	883	-----	18	95	493	-----	275	2
4119 EMPTY CONTAINERS-----	154	-----	-----	28	81	45	-----	-----

LOS ANGELES, CA, DISTRICT

9

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT				
MISSION BAY, CALIF.,-----	NO COMMERCE REPORTED			
MORRO BAY HARBOR, CALIF.,-----	NO COMMERCE REPORTED			
NEWPORT BAY HARBOR, CALIF.,-----	3241 BUILDING MATERIALS-----	201		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	100		
	4112 COMMODITIES, NECESSITIES-----	100		
	TOTAL-----			
REDONDO BEACH, CALIF.,-----	NO COMMERCE REPORTED			
SANTA BARBARA HARBOR, CALIF.,-----	NO COMMERCE REPORTED			
NONPROJECT				
ELLWOOD, CALIF.,-----	1311 CRUDE PETROLEUM-----	279		
	1491 CLAY-----	5		
	2099 SPICES-----	29		
	2699 MISCELLANEOUS FOOD PRODUCTS-----	90		
	2914 DISTILLATE FUEL OIL-----	14		
	2916 CONDENSING OILS AND RESIDUES-----	1		
	2991 PETROLEUM AND FUEL OIL, RESIDUES-----	120		
	3317 IRON AND STEEL PIPE AND TUBES-----	12		
	3411 FABRICATED METAL PRODUCTS-----	63		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	3,885		
	3611 ELECTRICAL MACH. AND EQUIP-----	54		
	3921 MISC. MANUFACTURED PRODUCTS-----	10,374		
	4029 WASTE AND SCRAP, NECESSITIES-----	67		
	4111 WATER-----	960		
	4112 COMMODITIES, NECESSITIES-----	1,179		
	4119 EMPTY CONTAINERS-----	172		
	TOTAL-----	503,862		
ENCINA, CALIF.,-----	2915 RESIDUAL FUEL OIL-----	253,000		
	4111 WATER-----	352		
	TOTAL-----	253,352		

Waterborne Commerce of the United States, 1986

SACRAMENTO, CA, DISTRICT

SACRAMENTO RIVER, CALIF. (INCLUDING COMMERCE OF
SACRAMENTO RIVER DEEPWATER SHIP CHANNEL AND THE
PORT OF SACRAMENTO, CALIF.)

SECTION INCLUDED: FROM MOUTH OF RIVER TO RED BLUFF VIA RIVER ROUTE, A DISTANCE OF 248 MILES; FROM MOUTH OF CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, A DISTANCE OF 29.9 MILES. CONTROLLING DEPTH: MOUTH OF RIVER TO CACHE SLOUGH, 29 FEET; MOUTH OF CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, 29 FEET; MOUTH OF CACHE SLOUGH TO SACRAMENTO VIA RIVER ROUTE, 10 FEET; SACRAMENTO TO COLUSA, 6 FEET IN LOW WATER SEASON; COLUSA TO CHICO LANDING, 3 FEET; CHICO LANDING TO RED BLUFF, 1.5 FEET. PROJECT DEPTH: 30 FEET FROM MOUTH OF RIVER TO CACHE SLOUGH; 30 FEET FROM CACHE SLOUGH TO WASHINGTON LAKE VIA SACRAMENTO RIVER DEEPWATER SHIP CHANNEL; 10 FEET FROM MOUTH OF CACHE SLOUGH TO SACRAMENTO VIA RIVER ROUTE; 6 FEET FROM SACRAMENTO TO COLUSA; 5 FEET FROM COLUSA TO CHICO LANDING; SUCH DEPTHS AS PRACTICABLE FROM CHICO LANDING TO RED BLUFF.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,602,291	1982-----	2,016,475
1978-----	1,760,717	1983-----	1,838,583
1979-----	2,065,089	1984-----	1,648,768
1980-----	2,964,769	1985-----	1,749,349
1981-----	3,116,927	1986-----	1,208,832

* PASSENGERS--14,776.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC			
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	1,208,832	44,538	592,736	308,273	70,977	136,500	55,808	1,000	1,000
0105 RICE-----	350,378		299,786		50,592				
0119 OILSEEDS, NEC-----	27,885		27,885						
0129 FIELD CROPS, NEC-----	14		14						
0131 FRESH FRUITS-----	56		56						
1402 SAND, GRAVEL, CRUSHED ROCK-----	11,200					1,600	9,600		
1499 NONMETALLIC MINERALS, NEC-----	419		419						
2022 DRIED MILK AND CREAM-----	437		437						
2039 PREP FRUIT AND VEG JUICE, NEC-----	374		374						
2042 ANIMAL FEEDS-----	27,614		27,614						
2081 ALCOHOLIC BEVERAGES-----	11		11						
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,825		13,825						
2411 LOGS-----	75,338		75,338						
2416 WOOD CHIPS, STAVES, MOLDINGS-----	146,343		146,343						
2421 LUMBER-----	1,128	1,118	10						
2491 WOOD MANUFACTURES, NEC-----	66		66						
2631 PAPER AND PAPERBOARD-----	4		4						
2819 BASIC CHEMICALS AND PROD, NEC-----	155,441			155,441					
2851 PAINTS-----	8		8						
2871 NITROGENOUS CHEM FERTILIZERS-----	189,420	38,988		150,832					
2872 POTASSIC CHEM FERTILIZERS-----	4,398	4,398							
2879 FERTILIZER AND MATERIALS, NEC-----	7,458				7,458				
2991 PETROLEUM AND COAL PROD, NEC-----	12,927				12,927				
3011 RUBBER AND MISC PLASTIC PROD-----	22		7						
3111 LEATHER AND LEATHER PRODUCTS-----	11		11						
3211 GLASS AND GLASS PRODUCTS-----	12		12						
3291 MISC NONMETALLIC MINERAL PROD-----	27,158						27,158		
3411 FABRICATED METAL PRODUCTS-----	12	12							
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,380		330				50		1,000
3611 ELECTRICAL MACH AND EQUIP-----	2		2						
3791 MISC TRANSPORTATION EQUIPMENT-----	10		10						
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1		1						
3911 MISC MANUFACTURED PRODUCTS-----	1		1						
4012 NONFERROUS METAL SCRAP-----	45		45						
4024 PAPER WASTE AND SCRAP-----	94		94						
4112 COMMODITIES, NEC-----	33		33						
4118 WATERWAY IMPROVEMENT MAT-----	154,900					134,900	19,000	1,000	
TOTAL TON-MILES-----	45,688,349								

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.
(INCLUDED IN SACRAMENTO RIVER, CALIF.)

SECTION INCLUDED: A DEEPWATER SHIP CHANNEL FROM SUISUN BAY TO THE INLAND HARBOR AT SACRAMENTO, A DISTANCE OF 43 MILES; A TRIANGULAR-SHAPED DEEP DRAFT HARBOR AND TURNING BASIN LOCATED AT WEST SACRAMENTO; A 1.5 MILE-LONG BARGE CANAL WITH NAVIGATION LOCK CONNECTING THE DEEP DRAFT HARBOR WITH THE SACRAMENTO RIVER. CONTROLLING DEPTH: 29 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASIN; 13 FEET IN THE BARGE CANAL. PROJECT DEPTH: 30 FEET IN THE DEEPWATER SHIP CHANNEL AND TRIANGULAR-SHAPED HARBOR AND TURNING BASIN; 13 FEET IN THE BARGE CANAL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,481,228	1982-----	1,928,115
1978-----	1,550,142	1983-----	1,833,859
1979-----	1,779,124	1984-----	1,622,721
1980-----	2,948,802	1985-----	1,493,081
1981-----	3,111,912	1986-----	976,105

SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.
(INCLUDED IN SACRAMENTO RIVER, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	UPDOWN	DOWNDOWN
TOTAL	976,105	44,538	592,736	306,273	22,558	1,000	9,000
0105 RICE	314,886		299,786		15,100		
0119 OILSEEDS, NEC	27,885		27,885				
0129 FIELD CROPS, NEC	14		14				
0131 FRESH FRUITS	56		56				
1442 SAND, GRAVEL, CRUSHED ROCK	1,000						1,000
1499 NONMETALLIC MINERALS, NEC	419		419				
2022 DRIED MILK AND CREAM	437		437				
2039 PREP FRUIT AND VEG JUICE, NEC	374		374				
2042 ANIMAL FEEDS	27,614		27,614				
2091 ALCOHOLIC BEVERAGES	11		11				
2099 MISCELLANEOUS FOOD PRODUCTS	13,825		13,825				
2411 LOGS	75,338		75,338				
2416 WOOD CHIPS, STAVES, HOLDINGS	146,343		146,343				
2421 LUMBER	1,128	1,118					
2491 WOOD MANUFACTURES, NEC	66		66				
2631 PAPER AND PAPERBOARD	4		4				
2819 BASIC CHEMICALS AND PROD, NEC	155,441			155,441			
2851 PAINTS	8		8				
2871 NITROGENOUS CHEM FERTILIZERS	189,820	38,988		150,832			
2872 POTASSIC CHEM FERTILIZERS	4,398		4,398				
2879 FERTILIZER AND MATERIALS, NEC	7,458			7,458			
3011 RUBBER AND MISC PLASTIC PROD	29	22	7				
3111 LEATHER AND LEATHER PRODUCTS	11		11				
3211 GLASS AND GLASS PRODUCTS	12		12				
3411 FABRICATED METAL PRODUCTS	12	12					
3511 MACHINERY, EXCEPT ELECTRICAL	1,330		330			1,000	
3611 ELECTRICAL MACH AND EQUIP	2		2				
3791 MISC TRANSPORTATION EQUIPMENT	10		10				
3811 INSTR, TIME, PHOTO, OPT GOODS	1		1				
3911 MISC MANUFACTURED PRODUCTS	1		1				
4012 NONFERROUS METAL SCRAP	45		45				
4024 PAPER WASTE AND SCRAP	94		94				
4112 COMMODITIES, NEC	33		33				
4118 WATERWAY IMPROVEMENT MAT	8,000						8,000
TOTAL TON-MILES	40,025,305						

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)

SECTION INCLUDED: A TRIANGULAR-SHAPED HARBOR AND TURNING BASIN AT WASHINGTON LAKE, WEST SACRAMENTO, ADJACENT TO CHANNEL; A CONNECTING BARGE CANAL TO THE SACRAMENTO RIVER SHALLOW DRAFT CHANNEL; THENCE UPSTREAM TO A POINT APPROXIMATELY 6.6 MILES UPSTREAM AT DRYTE. CONTROLLING DEPTH: 29 FEET IN THE DEEPWATER CHANNEL HARBOR AND TURNING BASIN; 15 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL. PROJECT DEPTH: 30 FEET IN THE DEEPWATER CHANNEL HARBOR AND TURNING BASIN; 13 FEET IN THE CONNECTING BARGE CANAL; 10 FEET IN THE SHALLOW DRAFT CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977	1,481,691	1982	1,948,965
1978	1,657,631	1983	1,822,496
1979	2,030,770	1984	1,822,929
1980	2,948,802	1985	1,497,025
1981	3,113,425	1986	1,914,524

* PASSENGERS--10,582.

FREIGHT TRAFFIC, 1985

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	1,014,524	44,538	592,736	306,273	73,477
0105 RICE	350,378		299,786		50,592
0119 OILSEEDS, NEC	27,885		27,885		
0129 FIELD CROPS, NEC	14		14		
0131 FRESH FRUITS	56		56		
1499 NONMETALLIC MINERALS, NEC	419		419		
2022 DRIED MILK AND CREAM	437		437		
2039 PREP FRUIT AND VEG JUICE, NEC	374		374		
2042 ANIMAL FEEDS	27,614		27,614		
2091 ALCOHOLIC BEVERAGES	11		11		
2099 MISCELLANEOUS FOOD PRODUCTS	13,825		13,825		
2411 LOGS	75,338		75,338		
2416 WOOD CHIPS, STAVES, HOLDINGS	146,343		146,343		
2421 LUMBER	1,128	1,118	10		
2491 WOOD MANUFACTURES, NEC	66		66		
2631 PAPER AND PAPERBOARD	4		4		
2819 BASIC CHEMICALS AND PROD, NEC	155,441			155,441	
2851 PAINTS	8		8		
2871 NITROGENOUS CHEM FERTILIZERS	189,820	38,988		150,832	
2872 POTASSIC CHEM FERTILIZERS	4,398		4,398		

SACRAMENTO, CALIF. (INCLUDED IN SACRAMENTO RIVER, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	7,458
2991 PETROLEUM AND COAL PROD, NEC-----	12,927	-----	-----	-----	12,927
3011 RUBBER AND MISC PLASTIC PROD-----	29	22	7	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	11	-----	11	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	12	-----	12	-----	-----
3411 FABRICATED METAL PRODUCTS-----	12	12	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	330	-----	330	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	2	-----	2	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	10	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1	-----	1	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	1	-----	1	-----	-----
4012 NONFERROUS METAL SCRAP-----	45	-----	45	-----	-----
4024 PAPER WASTE AND SCRAP-----	94	-----	94	-----	-----
4112 COMMODITIES, NEC-----	33	-----	33	-----	-----

SAN JOAQUIN RIVER, CALIF. (INCLUDING COMMERCE OF
PORT OF STOCKTON, CALIF.)

SECTION INCLUDED: FROM MOUTH OF NEW YORK SLOUGH TO CITY OF STOCKTON, 41 MILES; FROM STOCKTON CHANNEL TO HILLS FERRY, 84 MILES.
CONTROLLING DEPTH: MOUTH OF RIVER TO MORMON CHANNEL, STOCKTON, 35 FEET; OTHER CONNECTING CHANNELS, 2 FEET TO 9 FEET; TO EDISON STREET,
22 FEET. PROJECT DEPTH: 35 FEET FROM THE MOUTH OF NEW YORK SLOUGH TO MORMON CHANNEL AT STOCKTON; 30 FEET FROM MORMON CHANNEL TO EDISON
STREET; OTHER CONNECTING CHANNELS, 9 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	3,507,137	1982-----	2,759,139
1978-----	2,638,522	1983-----	3,277,363
1979-----	3,104,550	1984-----	2,423,372
1980-----	3,920,171	1985-----	2,516,628
1981-----	3,883,148	1986-----	2,430,013

* PASSENGERS--8,176.

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	IMPORTS	EXPORTS
TOTAL-----	1,772,422	1,012,704	759,718
0102 BARLEY AND RYE-----	17,224	17,224	-----
0105 RICE-----	3,979	-----	3,979
1051 ALUMINUM DRES, CONCENTRATES-----	8,075	8,075	-----
1451 CLAY-----	3,306	-----	3,306
1492 SULPHUR, DRY-----	276,332	-----	276,332
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	543,318	-----
2012 MEAT AND PRODUCTS, NEC-----	57	57	-----
2022 DRIED MILK AND CREAM-----	2,147	-----	2,147
2049 GRAIN MILL PRODUCTS, NEC-----	13	13	-----
2061 SUGAR-----	11,883	11,883	-----
2081 ALCOHOLIC BEVERAGES-----	265	265	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2	-----	2
2211 BASIC TEXTILE PRODUCTS-----	8	8	-----
2311 APPAREL-----	5	5	-----
2421 LUMBER-----	24	-----	24
2491 WOOD MANUFACTURES, NEC-----	3	3	-----
2511 FURNITURE AND FIXTURES-----	59	59	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	4	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	175,166	175,166	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	117,873	117,873	-----
2920 COKE, PETROLEUM COKE-----	369,353	-----	369,353
3011 RUBBER AND MISC PLASTIC PROD-----	3	3	-----
3111 LEATHER AND LEATHER PRODUCTS-----	13	13	-----
3211 GLASS AND GLASS PRODUCTS-----	42	42	-----
3241 BUILDING CEMENT-----	112,785	112,785	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	20	-----
3281 CUT STONE AND STONE PRODUCTS-----	10	10	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,550	8,550	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	21	-----
3411 FABRICATED METAL PRODUCTS-----	11	11	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,360	1,360	-----
3611 ELECTRICAL MACH AND EQUIP-----	48	48	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	2	-----
3911 MISC MANUFACTURED PRODUCTS-----	9	9	-----
4011 IRON AND STEEL SCRAP-----	88,575	-----	88,575
4012 NONFERROUS METAL SCRAP-----	15,869	15,869	-----

TON-MILES, FOREIGN, 38,448,875.

SACRAMENTO, CA, DISTRICT

13

SAN JOAQUIN RIVER, CALIF. (INCLUDING COMMERCE OF
PORT OF STOCKTON, CALIF.)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL				THROUGH DOWNBOUND
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	
TOTAL-----	657,591	75,674	44,217	212,625	164,300	4,750	275	155,750
1442 SAND, GRAVEL, CRUSHED ROCK-----	136,400	-----	-----	-----	133,400	-----	-----	3,000
1491 SALT-----	39,600	-----	-----	39,600	-----	-----	-----	-----
2610 SODIUM HYDROXIDE-----	35,335	33,717	1,618	-----	-----	-----	-----	-----
2619 BASIC CHEMICALS AND PROD, NEC-----	47,866	33,680	14,186	-----	-----	-----	-----	-----
2861 GUM AND ADJO CHEMICALS-----	8,277	8,277	-----	-----	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	1,810	-----	-----	1,810	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	28,413	-----	28,413	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	15	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,300	-----	-----	-----	400	900	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,475	-----	-----	1,900	-----	250	275	50
4029 WASTE AND SCRAP, NEC-----	300	-----	-----	300	-----	-----	-----	-----
4118 HIGHWAY IMPROVEMENT MAT-----	355,600	-----	-----	169,000	30,500	3,600	-----	152,700
TON-MILES, DOMESTIC,-----	8,209,071	-----	-----	-----	-----	-----	-----	-----
TONS, ALL TRAFFIC,-----	2,430,013	-----	-----	-----	-----	-----	-----	-----
TON-MILES, ALL TRAFFIC,-----	46,657,946	-----	-----	-----	-----	-----	-----	-----

STOCKTON, CALIF. (INCLUDED IN SAN JOAQUIN RIVER, CALIF.)

SECTION INCLUDED: HARBOR AT STOCKTON (AND VICINITY). CONTROLLING DEPTH: 35 FEET IN STOCKTON CHANNEL UP TO MOUTH OF MORMON CHANNEL; 8 FEET IN MORMON CHANNEL; 8 FEET IN FREMONT CHANNEL, MCLEOD LAKE AND IN THE HEAD OF STOCKTON CHANNEL. PROJECT DEPTH: (INCLUDED IN SAN JOAQUIN RIVER PROJECT).

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,520,991	1982-----	1,335,121
1978-----	1,554,482	1983-----	1,102,865
1979-----	1,617,508	1984-----	927,049
1980-----	1,995,435	1985-----	748,857
1981-----	1,950,947	1986-----	867,722

* PASSENGERS--8,170.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	INTERNAL RECEIPTS
TOTAL-----	867,722	440,941	398,264	27,617	900
0102 BARLEY AND RYE-----	17,224	17,224	-----	-----	-----
0105 RICE-----	3,979	-----	3,979	-----	-----
1451 CLAY-----	3,306	-----	3,306	-----	-----
1492 SULPHUR, DRY-----	276,332	-----	276,332	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	57	-----	-----	-----
2022 DRIED MILK AND CREAM-----	2,147	-----	2,147	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	13	13	-----	-----	-----
2061 SUGAR-----	11,883	11,883	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	265	265	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	2	-----	2	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	8	8	-----	-----	-----
2311 APPAREL-----	5	5	-----	-----	-----
2421 LUMBER-----	24	-----	24	-----	-----
2491 WOOD MANUFACTURES, NEC-----	3	3	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	59	59	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	4	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	190,031	170,691	-----	19,340	-----
2861 GUM AND WOOD CHEMICALS-----	8,277	-----	8,277	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	117,873	117,873	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	27,899	-----	27,899	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	3	3	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	13	13	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	42	42	-----	-----	-----
3241 BUILDING CEMENT-----	112,785	112,785	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	20	-----	-----	-----
3261 CUT STONE AND STONE PRODUCTS-----	10	10	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	900	-----	-----	-----	900
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	8,558	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	11	11	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,360	1,360	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	43	43	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2	2	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	9	9	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	84,575	-----	84,575	-----	-----

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
MIDDLE RIVER, CALIF.-----	4118 WATERWAY IMPROVEMENT MAT-----	32,100	89,500	-----
MOKELUMNE RIVER, CALIF.-----	1402 SAND, GRAVEL, CRUSHED ROCK-----	1,000	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	50	-----	-----
	4118 WATERWAY IMPROVEMENT MAT-----	85,000	-----	-----
	TOTAL-----	86,050	172,000	-----
OLD RIVER, CALIF.-----	1402 SAND, GRAVEL, CRUSHED ROCK-----	2,000	-----	-----
	4118 WATERWAY IMPROVEMENT MAT-----	54,500	-----	-----
	TOTAL-----	56,500	247,300	-----

SAN FRANCISCO, CA, DISTRICT

15

TOTAL WATERBORNE COMMERCE OF THE SAN FRANCISCO BAY AND DELTA AREAS

CALENDAR YEAR 1986

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC				TOTAL	PERCENT	THROUGH TRAFFIC*
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS	LOCAL			
			RECEIPTS	SHIPMENTS					
SAN RAFAEL CREEK, CALIF.									
Petaluma River, CALIF.			50	980	100,300		100,330	.24	
Yuba River, CALIF.					41,807		41,807	.05	
CARQUINEZ STRAIT, CALIF.	1,408,252	2,748,797	8,056,734	2,169,198	3,617,637	107,777	18,108,395	22.86	5,767,057
SUISUN BAY CHANNEL, CALIF.		320,120	285,663	1,281,911	453,201		2,348,895	2.97	3,556,601
SUISUN CHANNEL, CALIF.					18,707		18,707	.02	
SACRAMENTO RIVER, CALIF.	44,538	562,736	306,273	70,977	192,368	2,000	1,248,832	1.53	
SAN JOAQUIN RIVER, CALIF. AND TRIB.	1,012,704	759,718	75,674	44,217	549,075	7,525	2,448,913	3.09	155,750
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.	182,491	447,401	2,483,493	2,079,006	1,234,146	11,700	6,437,837	8.14	23,307,275
RICHMOND HARBOR, CALIF.	2,079,741	3,220,481	7,022,870	2,385,361	4,088,031	36,027	18,832,511	23.80	
OAKLAND HARBOR, CALIF.	2,885,597	2,776,249	318,316	804,279	1,463,878		8,248,319	10.42	
YEMARK SLOUGH, CALIF.									
CUYOTE HILL SLOUGH, CALIF.									
ALVISO SLOUGH, CALIF.									
REDWOOD CITY HARBOR, CALIF.	86,950	212,996		113,634	107,197		520,577	.66	
SAN FRANCISCO HARBOR, CALIF.	1,006,172	468,922	55	26	1,281,727	17,000	2,773,902	3.51	
SAN FRANCISCO BAY, OTHER PORTS, CALIF.	96,954	133,900	6,402,688	192,041	10,308,766	821,270	17,955,619	22.69	
BERKELEY, CALIF.									
TOTAL (UNADJUSTED)	8,802,999	11,689,320	24,951,816	9,141,430	23,544,780	1,003,299	79,133,648		32,786,683
PERCENT (UNADJUSTED)	11.12	14.77	31.53	11.55	29.76	1.27		100.00	
NET VOLUME OF TONNAGE FOR THE AREA	8,802,999	11,689,320	24,951,816	9,141,430	11,886,683	1,003,299	67,475,547		
PERCENT (ADJUSTED)	13.05	17.32	36.98	13.55	17.61	1.49		100.00	

* NOT INCLUDED IN THE TOTAL TONNAGE OF THE BAY AND DELTA AREA.

** TRIBUTARIES TO SAN JOAQUIN RIVER INCLUDE MOKELUMNE, MIDDLE, AND OLD RIVERS.

*** ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN PORTS AND WATERWAYS OF THE SAN FRANCISCO BAY AND DELTA AREAS.

SAN FRANCISCO BAY ENTRANCE, CALIF.

SECTION INCLUDED: BONITA, MAIN SHIP AND SOUTH CHANNELS. CONTROLLING DEPTHS: BONITA CHANNEL, 39 FEET; SOUTH CHANNEL, 33 FEET; MAIN SHIP CHANNEL, 52.6 FEET. PROJECT DEPTH: MAIN SHIP CHANNEL, 55 FEET. BONITA AND SOUTH CHANNELS, NO FEDERAL PROJECT.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1977	23,341,389	6,205,983	13,596,097	13,040,045	56,183,514	1982	5,415,358	8,712,056	18,565,931	15,157,937	48,351,282
1978	11,508,743	6,630,775	20,273,698	13,964,191	52,377,403	1983	7,739,106	10,373,664	16,772,362	12,928,404	47,813,536
1979	10,263,721	6,332,082	22,401,040	14,445,334	55,442,177	1984	9,315,619	10,340,646	20,374,476	9,331,116	49,361,857
1980	8,765,796	5,543,058	20,799,552	17,888,162	57,996,568	1985	7,562,221	10,456,891	22,274,582	10,173,330	50,467,024
1981	6,789,674	5,649,681	20,487,338	17,740,333	55,667,026	1986	8,802,999	11,689,320	24,957,322	9,364,516	54,814,151

SAN FRANCISCO HARBOR, CALIF.

SECTION INCLUDED: FROM FORT POINT TO SAN FRANCISCO AIRPORT ON THE WEST SIDE OF THE SAN FRANCISCO BAY. CONTROLLING DEPTHS: MAIN SHIP CHANNEL, 53.6 FEET; PRESIDIO SHOAL, 35.5 FEET; BLACK POINT SHOAL, 35.5 FEET; RINCON REEF ROCK (INNER), 41 FEET; RINCON REEF (OUTER), 42.5 FEET; BLOSSOM ROCK, 40 FEET; ALCATRAZ SHOAL, 34.5 FEET; ARCH ROCK, 36.2 FEET; HARDING ROCKS, 36.7 FEET; SHAG ROCKS 1 AND 2, 36.9 FEET; POINT KNOX SHOAL, 38.2 FEET; ISLAIS CREEK SHOAL, 26.0 FEET; CHANNEL AND BASIN AT SAN FRANCISCO AIRPORT, 6.8 FEET IN THE MAINTAINED 200-FOOT WIDE SOUTHERLY PORTION; 8 FEET IN THE MAINTAINED PORTION OF TURNING BASIN, 8.6 FEET TO SEAPLANE RAMP. PROJECT DEPTHS: 55 FEET IN ENTRANCE CHANNEL ACROSS THE BAY; 40 FEET ACROSS PRESIDIO SHOAL, BLACK POINT SHOAL, BLOSSOM ROCK, RINCON REEF ROCK, AND A PORTION OF ALCATRAZ SHOAL; 37 FEET ACROSS ARCH, SHAG, AND HARDING ROCKS; 35 FEET ACROSS RACCON SHOAL, AND THE WESTERN PART OF POINT KNOX SHOAL; 35 FEET ACROSS ISLAIS CREEK SHOAL; 10 FEET TO THE SAN FRANCISCO AIRPORT.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC			YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		
			CAR FERRY-RAILROAD CARS						CAR FERRY-RAILROAD CARS		
			EMPTY	LOADED	TOTAL				EMPTY	LOADED	TOTAL
1977--	1,931,693	27,030	8,603	9,638	18,241	1982--	1,654,777	2,141,582	1,403	1,490	2,893
1978--	2,317,565	33,253	8,750	9,522	18,272	1983--	1,484,314	3,057,723	830	767	1,597
1979--	2,353,799		3,650	4,268	7,918	1984--	2,168,342	3,471,199	203	177	380
1980--	1,752,193		23,134	24,327	47,461	1985--	3,762,481	1,484,000	-----	-----	-----
1981--	1,567,985	1,707,174	2,100	2,304	4,464	1986--	2,773,902	5,350,953	-----	-----	-----

Waterborne Commerce of the United States, 1986

SAN FRANCISCO HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	2,775,902	1,006,172	466,922	55	26	436,587	845,140	17,000
0101 COTTON, RAW-----	22,643		22,643					
0102 BARLEY AND RYE-----	2	2						
0103 CORN-----	273		273					
0105 RICE-----	10,523	8,260	2,263					
0107 WHEAT-----	90		90					
0111 SOYBEANS-----	249		249					
0119 OILSEEDS, NEC-----	755	662	93					
0129 FIELD CROPS, NEC-----	2,352	159	2,193					
0131 FRESH FRUITS-----	5,614	263	5,331					
0132 BANANAS AND PLANTAINS-----	40	40						
0133 COFFEE-----	85,117	84,770	347					
0134 COCOA BEANS-----	8,223	8,056	167					
0141 FRESH AND FROZEN VEGETABLES-----	7,916	1,179	6,737					
0161 ANIMALS AND PRODUCTS, NEC-----	1,242	752	450					
0191 MISCELLANEOUS FARM PRODUCTS-----	228	211	17					
0841 CRUDE RUBBER AND ALLIED GUMS-----	308	223	85					
0861 FOREST PRODUCTS, NEC-----	519	473	46					
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,117	898	219					
0912 SHELLFISH, EXCEPT PREPARED-----	583	421	162					
0931 MARINE SHELLS, UNMANUFACTURED-----	594	18	576					
1011 IRON ORE AND CONCENTRATES-----	29		29					
1051 ALUMINUM ORES, CONCENTRATES-----	36	19	17					
1091 NONFERREROUS ORES, CONCENT, NEC-----	3,141	1,848	1,293					
1412 BUILDING STONE, UNWORKED-----	8		8					
1462 SAND, GRAVEL, CRUSHED ROCK-----	207,607	102	80			203,850	3,575	
1451 CLAY-----	1,246	62	1,184					
1471 PHOSPHATE ROCK-----	29	22	7					
1479 NATURAL FERTILIZER MATS, NEC-----	5,774	5,774						
1492 SULPHUR, DRY-----	975		975					
1498 GYPSUM, CRUDE AND PLASTERS-----	227	18	209					
1499 NONMETALLIC MINERALS, NEC-----	25,090	808	24,282					
1911 ORDNANCE AND ACCESSORIES-----	146	78	68					
2011 MEAT, FRESH, CHILLED, FROZEN-----	18,000	15,197	2,803					
2012 MEAT AND PRODUCTS, NEC-----	7,875	7,729	146					
2014 TALLOW, ANIMAL FATS AND OILS-----	19,579		19,579					
2015 ANIMAL BY-PRODUCTS, NEC-----	3,837	7	3,830					
2021 DAIRY PRODUCTS, NEC-----	494	470	24					
2022 DRIED MILK AND CREAM-----	9,541	20	9,521					
2031 FISH AND SHELLFISH, PREPARED-----	5,232	4,978	254					
2034 VEGETABLES AND PREP, NEC-----	24,949	12,606	12,343					
2039 PREP FRUIT AND VEG JUICE, NEC-----	36,291	19,022	17,269					
2041 WHEAT FLOUR AND SEMOLINA-----	1,583		1,583					
2042 ANIMAL FEEDS-----	92,813	46,959	45,854					
2049 GRAIN MILL PRODUCTS, NEC-----	5,584	4,215	1,369					
2061 SUGAR-----	20,016	19,946	70					
2081 ALCOHOLIC BEVERAGES-----	17,240	13,205	4,035					
2091 VEGETABLE OILS, MARG, SHORT-----	30,663	27,732	3,131					
2095 ICE-----	346		346					
2099 MISCELLANEOUS FOOD PRODUCTS-----	35,536	16,938	18,598					
2111 TOBACCO MANUFACTURES-----	53	9	44					
2211 BASIC TEXTILE PRODUCTS-----	8,579	7,918	661					
2212 TEXTILE FIBERS, NEC-----	251		251					
2311 APPAREL-----	5,284	5,002	282					
2411 LOGS-----	31		31					
2413 FUEL WOOD, CHARCOAL, WASTES-----	556	498	58					
2416 WOOD CHIPS, STAVES, HOLDINGS-----	327		327					
2421 LUMBER-----	7,383	1,030	6,353					
2431 VENEER, PLYWOOD, WORKED WOOD-----	972	772	200					
2491 WOOD MANUFACTURES, NEC-----	18,777	3,172	15,605					
2511 FURNITURE AND FIXTURES-----	7,623	7,037	586					
2611 PULP-----	2,803	407	2,396					
2621 STANDARD NEWSPRINT PAPER-----	230,173	228,280	1,893					
2631 PAPER AND PAPERBOARD-----	26,705	13,962	12,743					
2691 PULP AND PAPER PRODUCTS, NEC-----	2,956	575	2,381					
2711 PRINTED MATTER-----	1,661	1,277	384					
2811 CRUDE TAR, OIL, WAX PRODUCTS-----	290	186	104					
2812 DYES, PIGMENT, TANNING MATS-----	54		54					
2813 ALCOHOLS-----	4,667	4,405	262					
2817 BENZENE AND TOLUENE-----	1,408	1,405	3					
2819 BASIC CHEMICALS AND PROD, NEC-----	47,857	19,223	28,634					
2821 PLASTIC MATERIALS-----	17,103	2,106	14,997					
2822 SYNTHETIC RUBBER-----	12,260		12,260					
2823 SYNTHETIC (MAN-MADE) FIBERS-----	76		76					
2831 DRUGS-----	1,477	706	771					
2841 SOAP-----	1,209	381	828					
2851 PAINTS-----	2,455	1,488	967					
2861 GUM AND WOOD CHEMICALS-----	30	20	10					
2871 NITROGENOUS CHEM FERTILIZERS-----	2,449	2,409						
2876 INSECTICIDES, DISINFECTANTS-----	2,442	1,193	1,249					
2879 FERTILIZER AND MATERIALS, NEC-----	712	100	612					
2891 MISCELLANEOUS CHEMICAL PROD-----	6,051	2,633	3,418					
2911 GASOLINE-----	154,591	151,591	43					
2915 KEROSENE-----	112,358							
2917 ASPHALT, PETROLEUM SOLVENTS-----	5,277		5,277					
2918 ASPHALT, TAR, AND BITUMENS-----	27,950	27,950						
2920 COKE, PETROLEUM COKE-----	40		40					
2921 LIQUEFIED GASES-----	1,533		1,533					
2951 ASPHALT BUILDING MATERIALS-----	202		202					
2991 PETROLEUM AND COAL PROD, NEC-----	118		118					
3011 RUBBER AND MISG PLASTIC PROD-----	1,417	139	1,278					
3111 LEATHER AND LEATHER PRODUCTS-----	15,705	13,767	1,938					
	3,006	2,465	521					

SAN FRANCISCO, CA, DISTRICT

17

SAN FRANCISCO HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3211 GLASS AND GLASS PRODUCTS-----	3,673	2,536	1,137	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	110	-----	110	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	5,182	4,519	663	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	4,366	4,362	4	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	70,861	0,118	0,092	-----	-----	21,458	37,193	-----
3314 IRON AND STEEL PRIMRY FORMS-----	115	110	5	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	19,979	19,975	4	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	0,958	-----	0,958	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	16,723	1,082	637	-----	4	-----	-----	17,000
3318 FERROALLOYS-----	277	277	-----	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	1,349	1,167	202	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	223	62	161	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	1,095	409	686	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3,605	3,425	180	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	30,091	26,961	3,122	4	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	46,764	34,138	12,622	20	4	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	36,711	31,485	7,226	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	48,044	37,916	5,128	-----	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	145	6	139	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	1,658	1,583	75	-----	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	968	836	132	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	2,747	1,589	1,158	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	16,117	15,469	648	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	4,635	-----	4,635	-----	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	35,247	26	35,221	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	677	-----	677	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	44,670	-----	44,670	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	764,400	-----	-----	-----	-----	-----	764,400	-----
4111 WATER-----	900	-----	-----	-----	-----	-----	-----	900
4112 COMMODITIES, NEC-----	6,759	2,099	4,615	27	18	-----	-----	-----
4118 WATERWAY IMPROVEMENT MAT-----	134,518	-----	-----	-----	-----	99,500	35,018	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	2,366	-----	2,366	-----	-----	-----	-----	-----

REDWOOD CITY HARBOR, CALIF.

SECTION INCLUDED: SAN BRUNO SHOAL CHANNEL 500 FEET WIDE AND ABOUT 4 MILES LONG ACROSS; REDWOOD CITY HARBOR CHANNEL, A CHANNEL FROM DEEP WATER IN SAN FRANCISCO BAY TO STEINBERGER SLOUGH. CONTROLLING DEPTHS: 29.4 FEET IN SAN BRUNO SHOAL CHANNEL; 26.7 FEET IN SAN FRANCISCO BAY TO BEACON NO. 8; 25.2 FEET TO BEACON NO. 15 AND BEGINNING OF (OUTER) TURNING BASIN NO. 1; 29.2 FEET IN TURNING BASIN NO. 1; 29.4 FEET TO (UPPER) TURNING BASIN NO. 2; 28.7 IN TURNING BASIN. PROJECT DEPTHS: 30 FEET IN SAN BRUNO SHOAL CHANNEL; 30 FEET TO THE HEAD OF THE TURNING BASIN IN REDWOOD CREEK; 5 FEET TO STEINBERGER SLOUGH, AND 4 FEET IN STEINBERGER SLOUGH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	410,293	1982-----	553,361
1978-----	474,131	1983-----	683,701
1979-----	775,379	1984-----	1,350,416
1980-----	951,242	1985-----	900,918
1981-----	827,459	1986-----	520,577

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
				SHIPMENTS	RECEIPTS
TOTAL-----	520,577	86,950	212,996	113,434	107,197
1442 SAND, GRAVEL, CRUSHED ROCK-----	105,000	-----	-----	-----	105,000
1491 SALT-----	264,909	-----	170,719	94,190	-----
2081 ALCOHOLIC BEVERAGES-----	14	14	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	9	-----	0	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	30,748	30,748	-----	-----	-----
2912 JET FUEL-----	2,197	-----	-----	-----	2,197
2991 PETROLEUM AND COAL PROD, NEC-----	9,044	-----	-----	-----	9,044
3241 BUILDING CEMENT-----	66,388	56,188	-----	10,200	-----
4011 IRON AND STEEL SCRAP-----	42,268	-----	42,268	-----	-----
TOTAL TON-MILES:-----	930,754	-----	-----	-----	-----

OAKLAND HARBOR, CALIF.

SECTION INCLUDED: OUTER AND INNER HARBOR FROM DEEP WATER IN SAN FRANCISCO BAY TO SAN LEONARD BAY, A DISTANCE OF 8.5 MILES. CONTROLLING DEPTH: 35.3 FEET IN THE ENTRANCE CHANNEL OF THE OUTER HARBOR TO BART TUBE; 34.5 TO ALBERS MILL; 34.5 TO SHED 5; 36.5 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 35.0 FEET IN INNER HARBOR TO FOOT OF FERRY STREET; 33.5 FEET TO POSEY TUBE; 34.8 FEET AT POSEY TUBE; 33.4 FEET TO FORTMANN BASIN; 24.0 FEET TO PARK STREET BRIDGE; 15.3 FEET IN TIDAL CANAL TO FRUITVALE AVENUE BRIDGE; 14.4 FEET IN TIDAL CANAL TO SAN LEONARD BAY; 7 FEET IN NORTH CHANNEL OF BROOKLYN BASIN. PROJECT DEPTH: 35 FEET IN THE ENTRANCE CHANNEL TO THE OUTER HARBOR; 35 FEET IN THE OUTER HARBOR; 35 FEET IN THE ENTRANCE CHANNEL TO THE INNER HARBOR; 35 FEET IN THE INNER HARBOR TO THE PARK STREET BRIDGE; 25 FEET IN THE TIDAL CANAL TO SAN LEONARD BAY; 35 FEET FOR A DISTANCE OF 1,300 FEET THENCE 25 FEET IN NORTH CHANNEL OF BROOKLYN BASIN (MAINTAINED 18 FEET).

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	T.O.S.	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS			YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS		
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL
1977	6,928,938	4,820	5,545	10,365	1982	6,985,134			
1978	6,917,246	5,051	5,752	10,783	1983	7,130,707			
1979	6,540,202				1984	8,812,259			
1980	7,313,533				1985	7,953,195			
1981	7,588,853				1986	8,248,319			

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL	8,248,319	2,885,997	2,776,249	318,316	804,279	849,227	615,651
1000 COTTON, RAW	140,831		140,831				
1100 SAWHAY AND WHEAT	193	27	166				
1105 CUMBER	2,661		2,661				
1106 DATES	11	11					
1105 RICE	77,551	9,017	10,638	20	94,676		
1106 SUGAR, GRIND	653		653				
1107 ARECANUT	73		73				
1111 SUGAR, BEANS	652		652				
1112 CILANTRO, NEG	6,486	426	6,040				
1121 CORN, WHOLE, NEG	1,845	21	1,824				
1124 RICE, COOKED, NEG	9,085	2,325	6,760				
1131 FRESH FRUITS	152,817	209	121,561	77,755	5,352		
1132 BANANAS AND PLANTAINS	232	56			176		
1133 COFFEE	55,514	51,702	1,625	828	1,359		
1134 COCOA BEANS	4,861	4,795	66				
1135 FRESH AND FROZEN VEGETABLES	124,652	4,662	78,749	905	40,316		
1136 LIVE ANIMALS, NEG	930		73	435	422		
1137 FISH AND SEAFOODS, NEG	12,644	4,486	7,991		167		
1138 MISCELLANEOUS FOOD PRODUCTS	1,882	1,561	301				
1139 FRESH FRUITS AND RELATED GUMS	2,859	2,826	33				
1140 FRESH FRUITS, NEG	3,453	1,440	764	1,383	266		
1141 FRESH FISH, NEG	16,298	7,680	8,618				
1142 SHELLFISH, EXCEPT PREPARED	6,489	1,784	4,048	69	568		
1143 FISH, NEG, UNMANUFACTURED	499	122	377				
1144 FISH, NEG, CONCENTRATES	20	20					
1145 FISH, NEG, CONCENTRATES	7,154	6,604	560				
1146 FISH, NEG, CONCENTRATES, NEG	6,099	337	4,841		921		
1147 FISH, NEG, CONCENTRATES, NEG	1,555	16	1,539				
1148 FISH, NEG, CONCENTRATES, NEG	66		66				
1149 FISH, NEG, CONCENTRATES, NEG	322		322				
1150 SAND, GRAVEL, CRUSHED ROCK	558,504	300	9,215			547,589	1,400
1151 LUMBER	32,407	3,170	29,215		22		
1152 PHOSPHATE, NEG	169	101	65				
1153 NATURAL FERTILIZER MATS, NEG	1,808	1,808					
1154 NATURAL FERTILIZER MATS, NEG	3,619	14	8		3,597		
1155 SUGAR, DRY, NEG	55,511		55,511				
1156 GYPSUM, CRUDE AND PLASTER	1,110		762		348		
1157 NONMETALLIC MINERALS, NEG	48,683	2,845	45,806		32		
1158 FURNACE AND ACCESSORIES	1,909	1,771	116		22		
1159 MEAT, FRESH, CHILLED, FROZEN	269,419	197,482	134,725	1,358	45,754		
1160 MEAT AND PRODUCTS, NEG	8,653	6,395	2,458		20		
1161 TALLOW, ANIMAL FATS AND OILS	5,575		5,575				
1162 ANIMAL BYPRODUCTS, NEG	79,079	92	78,861	126			
1163 LARD, PRODUCTS, NEG	21,173	10,530	489		7	10,147	
1164 DRIED MILK AND CREAM	13,885	314	13,571				
1165 FISH AND SHELLFISH, PREPARED	16,806	13,812	2,994				
1166 VEGETABLES AND PREP, NEG	131,795	35,864	50,034	1,622	44,075		
1167 PREP FRUIT AND VEG JUICE, NEG	450,882	156,986	129,996	161,638	2,260		
1168 MEAT, FLOUR AND SEMOLINA	7,329		918		6,408		
1169 ANIMAL FEEDS	241,918	3,720	218,901		19,293		
1170 FISH, NEG, PRODUCTS, NEG	21,008	14,509	5,885		614		
1171 SUGAR, NEG	4,873	60	103	5,849	866		
1172 W. ASSES	73,691		68	70,151	3,470		
1173 ANTI-OIL, NEG	197,699	143,215	23,591		30,731		
1174 VEGETABLE OILS, MANG. SHORT	52,216	12,749	32,884		6,575		
1175 ANIMAL OILS AND FATS, NEG	126	124	2				
1176 CRACKERS	51,600			130	51,699		
1177 MISCELLANEOUS FOOD PRODUCTS	211,101	99,866	152,949	1,863	6,423		
1178 TOBACCO MANUFACTURES	13,435	181	13,191		57		
1179 BASIC TEXTILE PRODUCTS	29,971	24,723	4,133		1,115		
1180 TEXTILE FIBERS, NEG	11,527		11,527				
1181 APPAREL	53,010	52,682	325				
1182 LUMBER	1,510		1,510				
1183 FUEL, WOOD, CHARCOAL, WASTES	5,123	1,504	540	61	1,004		
1184 LUMBER, POSTS, POLES, PILING	1,230		1,230				
1185 WOOD CHIPS, STAVES, MULDINGS	1,075	137	934				
1186 LUMBER	62,035	7,849	49,208	5	473		

SAN FRANCISCO, CA, DISTRICT

19

OAKLAND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1966--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE	INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2431 VENEER, PLYWOOD, WORKED WOOD-----	20,965	17,649	3,071	-----	245	-----	-----
2491 WOOD MANUFACTURES, NEC-----	59,746	23,610	34,878	-----	1,258	-----	-----
2511 FURNITURE AND FIXTURES-----	66,467	58,646	1,331	13,501	12,787	-----	-----
2611 PULP-----	31,276	74	31,202	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	69,655	69,504	151	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	68,943	24,414	36,030	-----	8,499	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	24,803	5,695	3,234	26	15,846	-----	-----
2711 PRINTED MATTER-----	16,021	9,343	2,574	-----	4,104	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1,241	1,028	213	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	225	-----	225	-----	-----	-----	-----
2813 ALCOHOLS-----	3,279	390	2,889	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	279	-----	195	84	-----	-----	-----
2817 BENZENE AND TOLUENE-----	12	-----	12	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	172,488	48,524	113,783	1,488	8,693	-----	-----
2821 PLASTIC MATERIALS-----	128,647	19,056	107,766	-----	1,825	-----	-----
2822 SYNTHETIC RUBBER-----	16,773	-----	16,773	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	3,622	749	2,873	-----	-----	-----	-----
2831 DRUGS-----	6,180	1,966	3,776	-----	438	-----	-----
2841 SOAP-----	22,715	2,171	6,319	68	14,157	-----	-----
2851 PAINTS-----	23,562	12,276	5,397	68	5,821	-----	-----
2861 GUM AND WOOD CHEMICALS-----	1,333	204	1,129	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	75,746	66,729	650	-----	8,367	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	16	-----	16	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	11,353	1,060	8,499	1	1,793	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	2,121	374	624	-----	1,119	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	42,634	19,726	21,638	46	1,224	-----	-----
2911 GASOLINE-----	35,311	25	586	-----	-----	31,868	2,832
2912 JET FUEL-----	9,150	-----	-----	-----	-----	9,150	-----
2913 KEROSENE-----	130	-----	130	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	37,627	-----	-----	-----	37,627	-----	-----
2915 RESIDUAL FUEL OIL-----	249,688	-----	-----	-----	-----	249,688	-----
2916 LUBRICATING OILS AND GREASES-----	26,757	2,601	8,820	3,570	1,834	9,932	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	236	-----	236	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,908	-----	1,732	-----	3,176	-----	-----
2920 COKE, PETROLEUM COKE-----	7,520	5,928	1,592	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	657	1	656	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,536	-----	931	-----	605	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	15,403	214	5,342	230	9,617	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	75,709	66,496	6,844	66	2,303	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	32,922	29,621	3,301	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	30,438	16,135	13,266	21	1,016	-----	-----
3241 BUILDING CEMENT-----	1,247	54	644	-----	549	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	19,431	14,697	3,529	24	1,181	-----	-----
3271 LIME-----	12	-----	12	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	14,027	13,651	76	-----	300	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	54,026	22,406	16,137	21	13,462	-----	-----
3312 SLAG-----	455	-----	-----	-----	455	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	430	304	126	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	576,340	575,824	366	-----	150	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	22,979	3,300	16,013	-----	3,666	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	84,300	78,814	1,832	6	3,648	-----	-----
3318 FERROALLOYS-----	5,002	4,645	357	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	6,224	5,238	986	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	11,197	1,604	4,587	-----	4,956	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	11,330	3,418	8,212	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	13,573	13,116	457	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	18,024	16,811	1,198	-----	15	-----	-----
3411 FABRICATED METAL PRODUCTS-----	175,057	126,356	11,239	311	35,151	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	307,749	252,361	47,300	657	5,531	-----	1,900
3611 ELECTRICAL MACH AND EQUIP-----	165,163	135,669	26,673	112	2,709	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	280,914	202,646	16,696	8,811	52,761	-----	-----
3721 AIRCRAFT AND PARTS-----	620	49	516	-----	55	-----	-----
3731 SHIPS AND BOATS-----	3,198	2,297	449	178	274	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	2,363	712	1,597	7	47	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	23,885	18,626	5,259	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	95,581	79,845	4,131	2,408	9,197	-----	-----
4011 IRON AND STEEL SCRAP-----	261,957	23	260,397	1,537	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	108,513	27,702	80,811	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	4,568	1	4,567	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	293,672	-----	293,672	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	609,585	-----	-----	66	-----	609,519	-----
4111 WATER-----	1,690	-----	-----	-----	1,690	-----	-----
4112 COMMODITIES, NEC-----	234,464	12,605	22,177	8,026	191,656	-----	-----
4119 EMPTY CONTAINERS-----	4,795	-----	-----	4,400	395	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	2,368	-----	2,368	-----	-----	-----	-----

RICHMOND HARBOR, CALIF.

SECTION INCLUDED: INNER HARBOR, FROM SOUTHERN END OF RICHMOND LONG WHARF MANEUVERING AREA TO THE HEAD OF SANTA FE CHANNEL, A DISTANCE OF ABOUT 5 MILES; OUTER HARBOR, FROM SOUTHERN END OF MANEUVERING AREA AT RICHMOND LONG WHARF TO POINT SAN PABLO AND THE NORTH SIDE OF POINT SAN PABLO; INCLUDES A CONNECTING CHANNEL (SOUTHAMPTON CHANNEL) TO THE RICHMOND LONG WHARF MANEUVERING AREA AND APPROACH AREAS AT POINT SAN PABLO AND POINT ORIENT. CONTROLLING DEPTHS: 41.9 FEET IN SOUTHAMPTON CHANNEL (CONNECTING CHANNEL FROM SAN FRANCISCO BAY TO RICHMOND LONG WHARF MANEUVERING AREA); 41.9 FEET IN MANEUVERING AREA TO RICHMOND LONG WHARF; 32.0 FEET FROM RICHMOND LONG WHARF MANEUVERING AREA TO TURNING BASIN POINT RICHMOND; 33.0 FEET IN PT. RICHMOND TURNING BASIN; 33.7 FEET TO POINT POTRENO; 33.0 FEET IN TURNING BASIN AT POINT POTRENO; POINT POTRENO (SOUTHERLY APEX ONLY) 33.2 FEET; 34.4 FEET TO LAURITZEN CANAL THEN 30.7 FEET IN SANTA FE CHANNEL TO UPPER TURNING BASIN; 31.2 FEET IN UPPER TURNING BASIN; 27 FEET IN APPROACH TO POINT ORIENT; 26 FEET IN APPROACH TO POINT SAN PABLO; 30.6 FEET AT MOLATE POINT; AND 33.4 FEET IN WEST RICHMOND CHANNEL. PROJECT DEPTH: 45 FEET IN CONNECTING CHANNEL (SOUTHAMPTON CHANNEL) FROM SAN FRANCISCO BAY TO RICHMOND LONG WHARF MANEUVERING AREA; 45 FEET IN MANEUVERING AREA TO RICHMOND LONG WHARF; 35 FEET TO TURNING BASIN AT PT. RICHMOND; 35 FEET TO POINT POTRENO; 35 FEET TO SANTA FE CHANNEL; 35 FEET IN SANTA FE CHANNEL FOR APPROXIMATELY 2,000 FEET THEN 30 FEET IN THE REMAINDER OF SANTA FE CHANNEL AND TURNING BASIN; 20 FEET IN CHANNEL EAST OF POINT SAN PABLO CHANNEL; 32 FEET IN APPROACH TO POINT ORIENT; 32 FEET IN APPROACH TO POINT SAN PABLO.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS			YEAR	TONS	ADDITIONAL TRAFFIC CAR FERRY-RAILROAD CARS		
		EMPTY	LOADED	TOTAL			EMPTY	LOADED	TOTAL
1977	23,823,508	3,369	3,699	7,067	1982	15,394,697	1,403	1,490	2,893
1978	18,986,001	3,316	3,567	6,883	1983	15,803,285	830	767	1,597
1979	18,475,302	3,646	4,246	7,894	1984	16,341,341	203	177	380
1980	18,559,965	23,134	24,327	47,461	1985	17,177,609			
1981	18,619,605	2,100	2,304	4,464	1986	18,832,511			

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL		
		IMPORTS	EXPORTS	COASTWISE			INTERNAL	
				RECEIPTS	SHIPMENTS		RECEIPTS	SHIPMENTS
TOTAL	18,832,511	2,079,741	3,220,481	7,022,870	2,385,361	1,786,967	2,301,044	36,027
0103 CORN	4,680				4,680			
0105 RICE	3,719		3,719					
0119 OLSEEDS, NEC	441		441					
1051 ALUMINUM DRES, CONCENTRATES	42,257	42,257						
1091 NONFERROUS DRES, CONCENT. NEC	4,797	4,797						
1121 COAL AND LIGNITE	42,282	42,282						
1311 CRUDE PETROLEUM	7,665,872	736,597		5,496,149	20,879	1,612,247		
1491 SALT	35,922	35,922						
1499 GYPSUM, CRUDE AND PLASTERS	187,793	187,793						
1911 ORDNANCE AND ACCESSORIES	47		47					
2011 MEAT, FRESH, CHILLED, FROZEN	71	71						
2014 TALLOW, ANIMAL FATS AND OILS	31,562		31,562					
2015 ANIMAL BY-PRODUCTS, NEC	80		80					
2031 FISH AND SHELLFISH, PREPARED	1	1						
2034 VEGETABLES AND PREP, NEC	9	9						
2039 PREP FRUIT AND VEG JUICE, NEC	42	42						
2062 MOLASSES	10,540	10,540						
2081 ALCOHOLIC BEVERAGES	339		339					
2091 VEGETABLE OILS, MARG, SHORTEN	236,417	213,369	23,048					
2099 MISCELLANEOUS FOOD PRODUCTS	37	37						
2111 TOBACCO MANUFACTURES	1		1					
2211 BASIC TEXTILE PRODUCTS	28	28						
2311 APPAREL	6	6						
2411 LOGS	58		58					
2421 LUMBER	6,211	37		6,174				
2431 VENEER, PLYWOOD, WORKED WOOD	201	201						
2491 WOOD MANUFACTURES, NEC	81	81	12					
2511 FURNITURE AND FIXTURES	161	161						
2621 STANDARD WEIGHING PAPER	6,013	6,013						
2631 PAPER AND PAPERBOARD	376	376						
2691 PULP AND PAPER PRODUCTS, NEC	14	14						
2810 SODIUM HYDROXIDE	73,036			66,101	6,935			
2811 CRUDE TAR, OIL, GAS PRODUCTS	6,006	4,533			1,475			
2813 ALCOHOLS	17,059	6,524		10,535				
2817 BENZENE AND TOLUENE	41,086	38,074						3,012
2819 BASIC CHEMICALS AND PROD, NEC	125,279	59,981	43,050	13,129	9,119			
2821 PLASTIC MATERIALS	7	6	1					
2851 PAINTS	41	40	1					
2871 NITROGENOUS CHEM FERTILIZERS	10,494	10,494						
2873 PHOSPHATIC CHEM FERTILIZERS	600				600			
2891 MISCELLANEOUS CHEMICAL PROD	83,967		61,202	3,653	19,112			
2711 GASOLINE	1,027,180	92,272	128,451	390,508	343,494	22,283	50,172	
2912 JET FUEL	444,098	110,319		81,468	213,258	28,753	6,300	
2913 KEROSENE	159	159						
2914 DISTILLATE FUEL OIL	1,174,876		496,636	232,326	409,549	32,006	4,359	
2915 RESIDUAL FUEL OIL	3,918,214		2,037,769	638,152	804,951	65,052	346,019	26,271
2916 LUBRICATING OILS AND GREASES	282,907	10,007	1,299	8,943	221,008	26,646	9,932	5,072
2917 NAPHTHA, PETROLEUM SOLVENTS	107,526	63,666		23,661	20,199			
2918 ASPHALT, TAR, AND BITUMES	98,787	69,118			29,669			
2920 COKE, PETROLEUM COKES	73,684	5,842	67,842					
2991 PETROLEUM AND COAL PROD, NEC	533,976			52,071	280,233			1,672
3011 RUBBER AND MISC PLASTIC PROD	22	22						
3111 LEATHER AND LEATHER PRODUCTS	5	5						
3211 GLASS AND GLASS PRODUCTS	84	84						
3241 BUILDING CEMENT	199,252	199,252						
3281 CUT STONE AND STONE PRODUCTS	8	8						
3311 PIG IRON	4,834		4,834					
3315 IRON, STEEL SHAPES, EXC SHEET	33,560	33,560						
3317 IRON AND STEEL PIPE AND TUBE	223	223						
3318 FERROALLOYS	392		392					
3322 COPPER ALLOYS, UNWORKED	19		19					
3323 LEAD AND ZINC, UNWORKED	596	596						
3324 ALUMINUM AND ALLOYS, UNWORKED	97		97					

RICHMOND HARBOR, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3411 FABRICATED METAL PRODUCTS-----	722	721	1	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,389	2,389	-----	-----	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	32	32	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	87,270	86,672	598	-----	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	63	-----	63	-----	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	1	1	-----	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	110	110	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	318,926	-----	318,926	-----	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	28	28	-----	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	1,884,262	-----	-----	-----	-----	-----	1,884,262	-----
4112 COMMODITIES, NEC-----	101	42	59	-----	-----	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	271	-----	271	-----	-----	-----	-----	-----

SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.

SECTION INCLUDED: ALL OF SAN PABLO BAY AND MARE ISLAND STRAIT. CONTROLLING DEPTHS: PINOLE SHOAL CHANNEL 37.1 FEET FROM S. P. BUOY AT BEGINNING OF CHANNEL TO BUOY 9; 36.0 FEET TO BUOY 11; 35.0 FEET TO END OF CHANNEL; MARE ISLAND STRAIT (THE MAINTAINED WESTERLY 55% OF PROJECT WIDTH) 35.5 FEET TO THE NAVY AMMUNITION PIER; 35.9 FEET TO PINGER PIER NO. 2; 36.4 FEET TO "A" STREET (END OF MAINTAINED SECTION); 20.5 FEET TO THE END OF 26-FOOT PROJECT AT CAUSEWAY. PROJECT DEPTHS: 35 FEET IN PINOLE SHOAL CHANNEL AND 30 FEET IN MARE ISLAND STRAIT, EXCEPT AT UPSTREAM END OF TURNING BASIN, 26 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	32,656,140	1982-----	31,177,922
1978-----	29,097,918	1983-----	29,103,850
1979-----	28,119,814	1984-----	28,783,513
1980-----	30,961,039	1985-----	28,286,726
1981-----	31,582,250	1986-----	29,745,112

* PASSENGERS--8,176.

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	24,378,533	182,091	447,401	2,465,494	4,429,371	2,483,493	2,079,006
0102 BARLEY AND RYE-----	17,224	-----	-----	17,224	-----	-----	-----
0105 RICE-----	354,357	-----	-----	-----	303,765	-----	50,592
0119 OILSEEDS, NEC-----	27,065	-----	-----	-----	27,065	-----	-----
0129 FIELD CROPS, NEC-----	14	-----	-----	-----	14	-----	-----
0131 FRESH FRUITS-----	56	-----	-----	-----	56	-----	-----
0133 COFFEE-----	38	-----	-----	-----	38	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	23	-----	23	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	8,075	-----	-----	8,075	-----	-----	-----
1311 CRUDE PETROLEUM-----	10,308,845	26,370	-----	188,529	-----	2,282,066	6,508,026
1451 CLAY-----	3,306	-----	-----	-----	3,306	-----	-----
1492 SULPHUR, DRY-----	276,332	-----	-----	-----	276,332	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	-----	-----	543,318	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	540	-----	-----	129	419	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	-----	-----	57	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	1,157	-----	-----	-----	1,157	-----	-----
2022 DRIED MILK AND CREAM-----	2,584	-----	-----	-----	2,584	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	4	-----	-----	-----	4	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	-----	-----	374	-----	-----
2042 ANIMAL FEEDS-----	27,614	-----	-----	-----	27,614	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	13	-----	-----	13	-----	-----	-----
2061 SUGAR-----	434,582	-----	-----	35,384	-----	-----	399,198
2081 ALCOHOLIC BEVERAGES-----	276	-----	-----	245	11	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,041	-----	-----	14	13,027	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	26	-----	-----	-----	12	-----	-----
2311 APPAREL-----	83	23	-----	60	-----	-----	-----
2411 LOGS-----	75,338	-----	-----	-----	75,338	-----	-----
2416 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	-----	-----	146,343	-----	-----
2421 LUMBER-----	43,143	-----	-----	1,155	34	20,427	21,527
2491 WOOD MANUFACTURES, NEC-----	70	-----	-----	4	66	-----	-----
2511 FURNITURE AND FIXTURES-----	149	-----	-----	149	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	66	-----	-----	66	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	-----	-----	4	-----	-----
2810 SODIUM HYDROXIDE-----	33,335	-----	-----	-----	-----	33,717	1,618
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,511	-----	-----	3,511	-----	-----	-----
2813 ALCOHOLS-----	5,265	-----	-----	5,265	-----	-----	-----
2817 BENZENE AND TOLUENE-----	13,929	4,449	-----	9,480	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	670,602	22,162	1,976	365,313	77,050	189,121	14,186
2821 PLASTIC MATERIALS-----	340	-----	340	-----	-----	-----	-----
2851 PAINTS-----	19	-----	-----	11	8	-----	-----
2861 GUM AND WOOD CHEMICALS-----	8,277	-----	-----	-----	-----	8,277	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	307,493	-----	-----	156,861	-----	150,832	-----
2872 POTASSIC CHEM FERTILIZERS-----	4,398	-----	-----	4,398	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	-----	-----	7,458
2891 MISCELLANEOUS CHEMICAL PROD-----	12,818	8,613	-----	-----	682	3,523	-----

Waterborne Commerce of the United States, 1986

SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPROUND	DOWNBOUND			UPROUND	DOWNBOUND
2911 GASOLINE-----	2,571,128	48,745	100,935	689,557	204,489	66,175	624,190	145,811	691,226
2912 JET FUEL-----	318,905	-----	367	-----	7,267	1,094	135,094	22,459	152,624
2914 DISTILLATE FUEL OIL-----	2,266,961	-----	123,337	-----	489,478	106,163	943,780	389,854	214,369
2915 RESIDUAL FUEL OIL-----	3,731,727	-----	220,429	17,002	1,493,049	7,568	256,506	802,099	735,074
2916 LUBRICATING OILS AND GREASES-----	421,228	-----	-----	-----	141,359	-----	108,530	2,389	168,950
2917 NAPHTHA, PETROLEUM SOLVENTS-----	132,608	71,642	-----	30,253	-----	-----	-----	24,348	6,365
2918 ASPHALT, TAR, AND PITCHES-----	29,235	-----	-----	16,775	12,400	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	835,458	-----	-----	-----	835,458	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	250,150	-----	-----	-----	-----	-----	7,000	25,589	217,561
3011 RUBBER AND MISC PLASTIC PROD-----	92	7	-----	78	7	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	60	12	-----	37	11	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	57	-----	-----	45	12	-----	-----	-----	-----
3241 BUILDING CEMENT-----	112,785	-----	-----	112,785	-----	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	-----	-----	20	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	10	-----	-----	10	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	901	-----	-----	1	-----	-----	-----	-----	900
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	-----	-----	8,558	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	20	-----	-----	-----	20	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	-----	-----	21	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	198	10	-----	188	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,243	1	-----	1,775	337	-----	-----	130	-----
3611 ELECTRICAL MACH AND EQUIP-----	383	22	-----	352	9	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	233,920	2	-----	232,759	1,159	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	-----	-----	10	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	37	-----	-----	36	1	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	57	19	-----	36	2	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	84,575	-----	-----	-----	84,575	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	15,959	-----	-----	15,869	90	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	94	-----	-----	-----	94	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	3,939	-----	-----	-----	33	-----	3,906	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,782	-----	-----	-----	1,782	-----	-----	-----	-----

TON-MILES, OCEANGOING, 278,578,059.

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	DOWNBOUND	THROUGH	
					UPROUND	DOWNBOUND
TOTAL-----	5,366,579	1,033,480	200,666	11,700	3,178,454	942,279
1311 CRUDE PETROLEUM-----	5,396,305	780,413	13,489	-----	2,602,403	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	329,900	34,000	-----	-----	14,200	281,700
1491 SALT-----	39,600	-----	-----	-----	39,600	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,157	-----	-----	-----	-----	5,157
2911 GASOLINE-----	33,057	3,264	-----	-----	10,342	19,451
2912 JET FUEL-----	122,974	-----	8,063	-----	-----	118,911
2914 DISTILLATE FUEL OIL-----	129,624	-----	51,693	-----	18,745	59,186
2915 RESIDUAL FUEL OIL-----	560,916	6,916	95,979	-----	47,505	410,516
2916 LUBRICATING OILS AND GREASES-----	26,646	-----	26,646	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	13,680	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	4,796	-----	4,796	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,344	-----	-----	-----	4,344	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	-----	15	-----
3291 MISC NONMETALLIC MINERAL PROD-----	27,558	-----	-----	-----	-----	27,558
3411 FABRICATED METAL PRODUCTS-----	207	207	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	-----	1,900	-----
4029 WASTE AND SCRAP, NEC-----	230,400	195,000	-----	11,700	300	23,400
4116 WATERWAY IMPROVEMENT MAT-----	439,500	-----	-----	-----	439,100	400

TON-MILES, INTERNAL, 55,685,626.

TONS, ALL TRAFFIC, 29,745,112.

TON-MILES, ALL TRAFFIC, 334,263,685.

CARQUINEZ STRAIT, CALIF.

SECTION INCLUDED: ALL OF CARQUINEZ STRAIT FROM DAVIS POINT ON THE WESTERLY END TO THE BENICIA-MARTINEZ BRIDGE AT SUISUN POINT ON THE EASTERLY END, A DISTANCE OF ABOUT 8 MILES. CONTROLLING DEPTH: 33 FEET. PROJECT DEPTH: 45 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	24,740,631	1982-----	25,805,889
1978-----	21,825,012	1983-----	23,049,417
1979-----	22,273,172	1984-----	22,840,317
1980-----	25,341,942	1985-----	21,522,175
1981-----	26,341,975	1986-----	23,875,452

* PASSENGERS--8,176.

CARQUINEZ STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	19,185,512	1,408,252	2,748,797	1,057,242	1,680,574	8,056,736	2,169,198	667,610	1,397,105
0102 BARLEY AND RYE-----	17,224			17,224					
0105 RICE-----	354,357				303,765				50,592
0119 OILSEEDS, NEC-----	27,885				27,885				
0129 FIELD CROPS, NEC-----	14				14				
0131 FRESH FRUITS-----	56				56				
0133 COFFEE-----	38	38							
1051 ALUMINUM DRES, CONCENTRATES-----	8,075			8,075					
1311 CRUDE PETROLEUM-----	8,000,409	188,529				6,262,941	834,542	245,085	469,312
1451 CLAY-----	3,306				3,306				
1492 SULPHUR, DRY-----	276,332				276,332				
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318			543,318					
1499 NONMETALLIC MINERALS, NEC-----	548	129			419				
2012 MEAT AND PRODUCTS, NEC-----	57			57					
2014 TALLOW, ANIMAL FATS AND OILS-----	1,157		1,157						
2022 DRIED MILK AND CREAM-----	2,584				2,584				
2031 FISH AND SHELLFISH, PREPARED-----	4	4							
2039 PREP FRUIT AND VEG JUICE, NEC-----	374				374				
2042 ANIMAL FEEDS-----	27,614				27,614				
2049 GRAIN MILL PRODUCTS, NEC-----	13			13					
2061 SUGAR-----	434,582	23,501		11,883		399,198			
2081 ALCOHOLIC BEVERAGES-----	276			265	11				
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,841	14			13,827				
2211 BASIC TEXTILE PRODUCTS-----	12	4		8					
2311 APPAREL-----	60	55		5					
2411 LOGS-----	75,338				75,338				
2416 WOOD CHIPS, STAVES, MOLDINGS-----	146,343				146,343				
2421 LUMBER-----	22,716	37		1,118	34	21,527			
2491 WOOD MANUFACTURES, NEC-----	70	1		3	66				
2511 FURNITURE AND FIXTURES-----	149	90		59					
2631 PAPER AND PAPERBOARD-----	68	64			4				
2691 PULP AND PAPER PRODUCTS, NEC-----	4			4					
2810 SODIUM HYDROXIDE-----	35,335						33,717	1,618	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	3,511	3,511							
2813 ALCOHOLS-----	5,265	5,265							
2817 BENZENE AND TOLUENE-----	9,480	9,480							
2819 BASIC CHEMICALS AND PROD, NEC-----	646,470	190,147	16,940	175,166	60,910		189,121	14,186	
2851 PAINTS-----	19	11			8				
2861 GUM AND WOOD CHEMICALS-----	8,277						8,277		
2871 NITROGENOUS CHEM FERTILIZERS-----	307,693			156,861			150,832		
2872 POTASSIC CHEM FERTILIZERS-----	4,398			4,398					
2879 FERTILIZER AND MATERIALS, NEC-----	7,458							7,458	
2891 MISCELLANEOUS CHEMICAL PROD-----	4,205		682			3,523			
2911 GASOLINE-----	1,731,083	689,557	177,645		26,644	131,176	94,150	14,635	597,076
2912 JET FUEL-----	182,350		7,267			22,459	151,326		1,298
2914 DISTILLATE FUEL OIL-----	1,093,701		415,836		73,642	363,911	175,964	25,943	38,405
2915 RESIDUAL FUEL OIL-----	3,247,224	17,002	1,579,141		113,908	799,673	620,218		117,282
2916 LUBRICATING OILS AND GREASES-----	312,698		89,012		52,347	2,389	165,984		2,966
2917 NAPHTHA, PETROLEUM SOLVENTS-----	60,966	30,253				24,348	6,365		
2918 ASPHALT, TAR, AND PITCHES-----	29,235	16,775	12,460						
2920 COKE, PETROLEUM COKE-----	835,458		446,105		389,353				
2991 PETROLEUM AND COAL PROD, NEC-----	243,190					25,589	120,649		96,912
3011 RUBBER AND MISC PLASTIC PROD-----	85	53		25	7				
3111 LEATHER AND LEATHER PRODUCTS-----	48	24		13	11				
3211 GLASS AND GLASS PRODUCTS-----	57	3		42	12				
3241 BUILDING CEMENT-----	112,785			112,785					
3251 STRUCTURAL CLAY PRODUCTS-----	20			20					
3281 CUT STONE AND STONE PRODUCTS-----	10			10					
3291 MISC NONMETALLIC MINERAL PROD-----	1	1							
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558			8,558					
3316 IRON AND STEEL PLATES, SHEETS-----	20		20						
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21			21					
3411 FABRICATED METAL PRODUCTS-----	188	165		23					
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,112	415	6	1,360	331				
3611 ELECTRICAL MACH AND EQUIP-----	361	304		48	9				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	233,918	232,759	1,159						
3791 MISC TRANSPORTATION EQUIPMENT-----	10				10				
3811 INSTR, TIME, PHOTO, OPT GOODS-----	37	34		2	1				
3911 MISC MANUFACTURED PRODUCTS-----	38	27	1	9	1				
4011 IRON AND STEEL SCRAP-----	84,575				84,575				
4012 NONFERROUS METAL SCRAP-----	15,959		45	15,869					
4024 PAPER WASTE AND SCRAP-----	94				94				
4112 COMMODITIES, NEC-----	33				33				
9999 DEPARTMENT OF DEFENSE AND SCI-----	1,782		1,121		661				
TOT-MILES, OCEANGOING,-----	131,626,144								

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
TOTAL-----	4,689,940	2,847,274	770,363	99,693	8,084	527,295	437,231
1311 CRUDE PETROLEUM-----	2,617,433	2,582,264		1,541		33,628	
1442 SAND, GRAVEL, CRUSHED ROCK-----	318,300		5,600			2,600	310,100
1491 SALT-----	39,600					39,600	

CARQUEZ STRAIT, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	10,519	5,362	-----	-----	-----	-----	5,157
2911 GASOLINE-----	42,440	-----	11,664	12,647	-----	10,342	7,767
2912 JET FUEL-----	114,911	-----	114,911	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	147,177	70,438	41,594	17,553	-----	-----	17,592
2915 RESIDUAL FUEL OIL-----	586,167	77,170	376,194	67,952	8,084	1,610	54,957
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	-----	-----	-----	-----	-----	13,680
2918 ASPHALT, TAR, AND PITCHES-----	4,796	4,796	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,344	4,344	-----	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	-----	-----	15	-----
3291 MISC NONMETALLIC MINERAL PROD-----	27,558	-----	-----	-----	-----	-----	27,558
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	-----	-----	1,900	-----
4029 WASTE AND SCRAP, NEC-----	321,600	102,900	218,400	-----	-----	300	-----
4118 WATERWAY IMPROVEMENT MAT-----	439,500	-----	2,000	-----	-----	437,100	400
TON-MILES, INTERNAL, 31,906,334.							
TONS, ALL TRAFFIC, 23,475,452.							
TON-MILES, ALL TRAFFIC, 163,526,478.							

SUISUN BAY CHANNEL, CALIF.

SECTION INCLUDED: SUISUN BAY CHANNEL FROM SUISUN POINT AT WEST END OF BENICIA-MARTINEZ BRIDGE TO EAST REACH OF MIDDLEGROUND ISLAND THENCE TO MOUTH OF NEW YORK SLOUGH. CONTROLLING DEPTH: 32.0 FEET FROM SUISUN POINT TO AVON WHARF; 31.6 FEET TO PRESTON POINT; 29.6 FEET TO MIDDLE POINT; 29.7 FEET THROUGH EAST REACH MIDDLEGROUND ISLAND TO MOUTH OF NEW YORK SLOUGH. PROJECT DEPTH: 35 FEET FROM BENICIA-MARTINEZ BRIDGE TO AVON PIER, 30 FEET FOR REMAINDER OF CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	7,920,404	1982-----	7,037,843
1978-----	5,787,360	1983-----	7,144,648
1979-----	6,121,200	1984-----	6,090,172
1980-----	6,092,843	1985-----	6,547,087
1981-----	6,081,497	1986-----	5,905,496

* PASSENGERS--8,176.

FREIGHT TRAFFIC, 1986

FOREIGN

(SHORT TONS)

COMMODITY	TOTAL	EXPORTS	THROUGH	
			UPBOUND	DOWNBOUND
TOTAL-----	2,737,816	328,120	1,057,242	1,352,454
0102 BARLEY AND RYE-----	17,224	-----	17,224	-----
0105 RICE-----	303,765	-----	-----	303,765
0119 OILSEEDS, NEC-----	27,885	-----	-----	27,885
0129 FIELD CROPS, NEC-----	14	-----	-----	14
0131 FRESH FRUITS-----	56	-----	-----	56
1051 ALUMINUM ORES, CONCENTRATES-----	8,075	-----	8,075	-----
1451 CLAY-----	3,306	-----	-----	3,306
1492 SULPHUR, DRY-----	276,332	-----	-----	276,332
1494 GYPSUM, CRUDE AND PLASTERS-----	543,318	-----	543,318	-----
1499 NONMETALLIC MINERALS, NEC-----	419	-----	-----	419
2012 MEAT AND PRODUCTS, NEC-----	57	-----	57	-----
2022 DRIED MILK AND CREAM-----	2,584	-----	-----	2,584
2039 PREP FRUIT AND VEG JUICE, NEC-----	374	-----	-----	374
2042 ANIMAL FEEDS-----	27,614	-----	-----	27,614
2049 GRAIN MILL PRODUCTS, NEC-----	13	-----	13	-----
2061 SUGAR-----	11,883	-----	11,883	-----
2081 ALCOHOLIC BEVERAGES-----	276	-----	265	11
2099 MISCELLANEOUS FOOD PRODUCTS-----	13,827	-----	-----	13,827
2211 BASIC TEXTILE PRODUCTS-----	8	-----	8	-----
2311 APPAREL-----	5	-----	5	-----
2411 LOGS-----	75,338	-----	-----	75,338
2416 WOOD CHIPS, STAVES, HOLDINGS-----	146,343	-----	-----	146,343
2421 LUMBER-----	1,152	-----	1,118	34
2491 WOOD MANUFACTURES, NEC-----	69	-----	3	66
2511 FURNITURE AND FIXTURES-----	59	-----	59	-----
2631 PAPER AND PAPERBOARD-----	4	-----	-----	4
2691 PULP AND PAPER PRODUCTS, NEC-----	4	-----	-----	4
2819 BASIC CHEMICALS AND PROD, NEC-----	236,076	60,910	175,166	-----
2851 PAINTS-----	8	-----	-----	8
2871 NITROGENOUS CHEM FERTILIZERS-----	156,861	-----	156,861	-----
2872 POTASSIC CHEM FERTILIZERS-----	4,390	-----	4,390	-----
2911 GASOLINE-----	26,644	26,644	-----	-----
2914 DISTILLATE FUEL OIL-----	73,642	73,642	-----	-----
2915 RESIDUAL FUEL OIL-----	113,908	113,908	-----	-----
2916 LUBRICATING OILS AND GREASES-----	52,347	52,347	-----	-----
2920 COKE, PETROLEUM COKE-----	389,353	-----	-----	389,353
3011 RUBBER AND MISC PLASTIC PROD-----	32	-----	25	7
3111 LEATHER AND LEATHER PRODUCTS-----	24	-----	13	11
3211 GLASS AND GLASS PRODUCTS-----	54	-----	42	12
3241 BUILDING CEMENT-----	112,785	-----	112,785	-----
3251 STRUCTURAL CLAY PRODUCTS-----	20	-----	20	-----

SUISUN BAY CHANNEL, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

FOREIGN--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	EXPORTS	THROUGH	
			UPBOUND	DOWNBOUND
3201 CUT STONE AND STONE PRODUCTS-----	10	-----	10	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,558	-----	8,558	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	21	-----	21	-----
3411 FABRICATED METAL PRODUCTS-----	23	-----	23	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,691	1	1,360	330
3611 ELECTRICAL MACH AND EQUIP-----	57	7	48	2
3791 MISC TRANSPORTATION EQUIPMENT-----	10	-----	-----	10
3811 INSTR, TIME, PHOTO, OPT GOODS-----	3	-----	2	1
3911 MISC MANUFACTURED PRODUCTS-----	10	-----	9	1
4011 IRON AND STEEL SCRAP-----	88,575	-----	-----	88,575
4012 NONFERROUS METAL SCRAP-----	15,914	-----	15,869	45
4024 PAPER WASTE AND SCRAP-----	94	-----	-----	94
4112 COMMODITIES, NEC-----	33	-----	-----	33
9999 DEPARTMENT OF DEFENSE AND SCI-----	661	661	-----	-----
TON-MILES, FOREIGN,	31,987,288.			

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS	SHIPMENTS	THROUGH		INBOUND	OUTBOUND	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	3,167,680	285,663	1,281,911	381,947	115,194	63,808	389,393	481,206	168,558
0105 RICE-----	50,592	-----	-----	-----	50,592	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	748,025	245,085	469,312	-----	-----	33,628	-----	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	312,700	-----	-----	-----	-----	-----	169,100	2,600	141,000
1491 SALT-----	39,600	-----	-----	-----	-----	-----	-----	39,600	-----
2810 SODIUM HYDROXIDE-----	35,335	-----	-----	33,717	1,618	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	10,519	-----	-----	-----	-----	-----	10,519	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	203,307	-----	-----	189,121	14,186	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	8,277	-----	-----	8,277	-----	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	150,832	-----	-----	150,832	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	7,458	-----	-----	-----	7,458	-----	-----	-----	-----
2911 GASOLINE-----	629,840	14,635	597,076	-----	-----	10,342	7,767	-----	-----
2912 JET FUEL-----	1,298	-----	-----	-----	-----	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	81,940	25,943	38,405	-----	-----	-----	17,592	-----	-----
2915 RESIDUAL FUEL OIL-----	201,226	-----	117,282	-----	-----	2,638	67,415	13,891	-----
2916 LUBRICATING OILS AND GREASES-----	2,966	-----	2,966	-----	-----	-----	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	13,680	-----	-----	-----	-----	-----	13,680	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	96,912	-----	55,572	-----	41,340	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	15	-----	-----	-----	-----	-----	-----	15	-----
3291 MISC NONMETALLIC MINERAL PROD-----	27,558	-----	-----	-----	-----	-----	-----	-----	27,558
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,900	-----	-----	-----	-----	-----	-----	1,900	-----
4029 WASTE AND SCRAP, NEC-----	103,200	-----	-----	-----	-----	-----	102,900	300	-----
4118 WATERWAY IMPROVEMENT MAT-----	440,500	-----	-----	-----	-----	17,200	400	422,900	-----
TON-MILES, DOMESTIC,	19,531,108.								

TONS, ALL TRAFFIC, 5,905,496,
TON-MILES, ALL TRAFFIC, 51,513,396.

HUMBOLDT HARBOR AND BAY, CALIF.

SECTION INCLUDED: ENTRANCE CHANNEL TO BAY AND CHANNELS IN BAY BETWEEN ARCATA WHARF ON THE NORTH AND FIELDS LANDING ON THE SOUTH. CONTROLLING DEPTH: BAR ENTRANCE CHANNEL, 29.0 FEET; CHANNEL BETWEEN THE JETTIES 26.6 FEET; CHANNEL AT INTERSECTION OF FIELDS LANDING AND NORTH BAY CHANNEL, 27.7 FEET; NORTH BAY CHANNEL, 23.6 FEET TO STANDARD OIL WHARF AT BUCKSPORT, 34.7 FEET FOR REMAINDER OF CHANNEL; SAMOA CHANNEL, 33.9 FEET; 30.5 FEET IN SAMOA TURNING BASIN; EUREKA CHANNEL, 27.6 FEET TO ANGLE IN CHANNEL, 11.0 FEET TO "D" STREET, 9.2 FEET TO HEAD OF PROJECT; FIELDS LANDING CHANNEL, 26.2 FEET TO BUMNE POINT, 27.4 FEET AT BUMNE POINT; 27.1 FEET TO TURNING BASIN, 22.7 FEET IN TURNING BASIN, 17.2 FEET IN SOUTHEAST CORNER OF TURNING BASIN. PROJECT DEPTH: ENTRANCE CHANNEL, 40 FEET; NORTH BAY, SAMOA, AND LOWER PORTION OF EUREKA CHANNEL 30 FEET, UPPER PORTION OF EUREKA CHANNEL AND FIELDS LANDING CHANNEL, 26 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,644,573	-----	1,644,573	1982-----	873,081	-----	873,081
1978-----	1,454,665	-----	1,454,665	1983-----	1,151,953	-----	1,151,953
1979-----	1,313,116	-----	1,313,116	1984-----	4,294,159	-----	4,294,159
1980-----	1,324,045	-----	1,324,045	1985-----	1,411,599	-----	1,411,599
1981-----	820,408	-----	820,408	1986-----	1,505,969	-----	1,505,969

HUMBOLOT HARBOR AND BAY, CALIF.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,585,949	9,633	809,053	522,680	168,603
0119 OILSEEDS, NEC-----	8	8			
0133 COFFEE-----	10	10			
0181 FRESH AND FROZEN VEGETABLES-----	24	14	10		
0191 MISCELLANEOUS FARM PRODUCTS-----	1	1			
2012 MEAT AND PRODUCTS, NEC-----	45	45			
2031 FISH AND SHELLFISH, PREPARED-----	1	1			
2034 VEGETABLES AND PREP, NEC-----	72	72			
2049 GRAIN MILL PRODUCTS, NEC-----	35	35			
2081 ALCOHOLIC BEVERAGES-----	820	820			
2091 VEGETABLE OILS, MARG, SHORT-----	7	7			
2095 ICE-----	24	24			
2099 MISCELLANEOUS FOOD PRODUCTS-----	203	203			
2211 BASIC TEXTILE PRODUCTS-----	65	65			
2311 APPAREL-----	1	1			
2411 LOGS-----	48,011		48,011		
2416 WOOD CHIPS, STAVES, HOLDINGS-----	399,184		399,184		
2421 LUMBER-----	179,740	235	18,930		168,603
2431 VENEER, PLYWOOD, WORKED WOOD-----	310	310			
2491 WOOD MANUFACTURES, NEC-----	50	46	12		
2511 FURNITURE AND FIXTURES-----	515	515			
2611 PULP-----	344,909		344,909		
2631 PAPER AND PAPERBOARD-----	1,205	80	1,125		
2691 PULP AND PAPER PRODUCTS, NEC-----	40	40			
2711 PRINTED MATTER-----	29	29			
2810 SODIUM HYDROXIDE-----	87,826			87,826	
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	56	56			
2818 SULPHURIC ACID-----	6,793			6,793	
2819 BASIC CHEMICALS AND PROD, NEC-----	21,204	3,140		18,064	
2821 PLASTIC MATERIALS-----	25	25			
2841 SOAP-----	56	56			
2851 PAINTS-----	10	10			
2871 NITROGENOUS LIQ FERTILIZERS-----	59	59			
2891 MISCELLANEOUS CHEMICAL PROD-----	35,074	74		35,000	
2911 GASOLINE-----	25,788			25,788	
2914 DISTILLATE FUEL OIL-----	54,071			54,071	
2915 RESIDUAL FUEL OIL-----	39,686			39,686	
2991 PETROLEUM AND COAL PROD, NEC-----	255,852			255,852	
3011 RUBBER AND MISC PLASTIC PROD-----	113	113			
3111 LEATHER AND LEATHER PRODUCTS-----	9	9			
3211 GLASS AND GLASS PRODUCTS-----	152	152			
3251 STRUCTURAL CLAY PRODUCTS-----	127	127			
3281 CUT STONE AND STONE PRODUCTS-----	40	40			
3291 MISC NONMETALLIC MINERAL PROD-----	27	27			
3315 IRON, STEEL SHAPES, EXC SHEET-----	1,272	1,272			
3316 IRON AND STEEL PLATES, SHEETS-----	656	656			
3321 NONFERROUS METALS, NEC-----	2	2			
3411 FABRICATED METAL PRODUCTS-----	50	50	8		
3511 MACHINERY, EXCEPT ELECTRICAL-----	892	892			
3611 ELECTRICAL MACH AND EQUIP-----	151	151			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	44	44			
3911 MISC MANUFACTURED PRODUCTS-----	115	115			
4112 COMMODITIES, NEC-----	866	2	864		
TOTAL TON-MILES,-----	8,492,262				

SAN FRANCISCO, CA, DISTRICT

27

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
BERKELEY, CALIF.,-----				67,107
BODEGA BAY, CALIF.,-----	NO COMMERCE REPORTED			
CRESCENT CITY HARBOR, CALIF.,-----	NO COMMERCE REPORTED			
HALF MOON BAY, CALIF.,-----	3291 MISC NONMETALLIC MINERAL PROD-----	900		
	4029 WASTE AND SCRAP, NEC-----	1,000		
	TOTAL-----	1,900		
MONTEREY HARBOR, CALIF.,-----	3511 MACHINERY, EXCEPT ELECTRICAL-----	130		
MOSS LANDING HARBOR, CALIF.,-----	NO COMMERCE REPORTED			
VAPA RIVER, CALIF.,-----	1491 SALT-----	39,600		
	3411 FABRICATED METAL PRODUCTS-----	207		
	4118 WATERWAY IMPROVEMENT NAT-----	2,000		
	TOTAL-----	41,807	343,204	
YOYO RIVER, CALIF.,-----	NO COMMERCE REPORTED			
PETALUMA RIVER, CALIF.,-----	1442 SAND, GRAVEL, CRUSHED ROCK-----	108,300		
	3291 MISC NONMETALLIC MINERAL PROD-----	900		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	130		
	TOTAL-----	109,330	2,057,930	
SAN RAFAEL CREEK, CALIF.,-----	NO COMMERCE REPORTED			
SANTA CRUZ HARBOR, CALIF.,-----	NO COMMERCE REPORTED			
SUISUN CHANNEL, CALIF.,-----	2915 RESIDUAL FUEL OIL-----	18,707	243,191	
NONPROJECT				
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF. (NET)-----	0105 RICE-----	7,344		
	0133 COFFEE-----	750		
	0861 FOREST PRODUCTS, NEC-----	244		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	27		
	1311 CRUDE PETROLEUM-----	11,437,303		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	914,063		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	113		
	2081 ALCOHOLIC BEVERAGES-----	186		
	2211 BASIC TEXTILE PRODUCTS-----	197		
	2421 LUMBER-----	27		
	2511 FURNITURE AND FIXTURES-----	22		
	2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,157		
	2819 BASIC CHEMICALS AND PROD, NEC-----	56		
	2821 PLASTIC MATERIALS-----	15		
	2841 SOAP-----	2		
	2911 GASOLINE-----	48,527		
	2912 JET FUEL-----	125,207		
	2914 DISTILLATE FUEL OIL-----	136,152		
	2915 RESIDUAL FUEL OIL-----	617,302		
	2991 PETROLEUM AND COAL PROD, NEC-----	4,344		
	3011 RUBBER AND MISC PLASTIC PROD-----	419		
	3211 GLASS AND GLASS PRODUCTS-----	36		
	3291 MISC NONMETALLIC MINERAL PROD-----	8,600		
	3411 FABRICATED METAL PRODUCTS-----	257		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,352		
	3611 ELECTRICAL MACH AND EQUIP-----	260		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	7,437		
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	163		
	3911 MISC MANUFACTURED PRODUCTS-----	10		
	4029 WASTE AND SCRAP, NEC-----	3,986,727		
	4111 WATER-----	900		
	4112 COMMODITIES, NEC-----	6		
	4118 WATERWAY IMPROVEMENT NAT-----	652,300		
	9999 DEPARTMENT OF DEFENSE AND SCI-----	134		
	TOTAL-----	17,955,619		3,962,266

Waterborne Commerce of the United States, 1986

PACIFIC OCEAN DIVISION

HILO HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF HILO, CONTROLLING DEPTH: 34.0 FEET. PROJECT DEPTH: 35 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	1,013,430	8,381	1982-----	1,381,996	-----
1978-----	1,272,734	3,207	1983-----	1,522,442	-----
1979-----	1,220,438	-----	1984-----	1,570,528	-----
1980-----	1,102,019	-----	1985-----	1,318,518	-----
1981-----	1,441,590	-----	1986-----	1,198,692	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,198,692	18,315	28,259	698,064	454,054
0105 RICE-----	1,429	-----	-----	1,429	-----
0122 HAY AND FODDER-----	344	-----	-----	12	332
0131 FRESH FRUITS-----	5,117	-----	-----	946	4,171
0133 COFFEE-----	822	-----	-----	14	808
0141 FRESH AND FROZEN VEGETABLES-----	8,912	-----	-----	6,265	2,647
0151 LIVE ANIMALS-----	398	-----	-----	352	46
0161 ANIMALS AND PRODUCTS, NEC-----	399	-----	-----	399	-----
0861 FOREST PRODUCTS, NEC-----	3,971	-----	-----	206	3,765
0912 SHELLFISH, EXCEPT PREPARED-----	213	-----	-----	213	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	153	-----	-----	153	-----
1491 SALT-----	473	-----	-----	473	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	502	-----	-----	502	-----
1911 ORDNANCE AND ACCESSORIES-----	49	-----	-----	36	11
2011 MEAT, FRESH, CHILLED, FROZEN-----	10,404	-----	-----	9,173	1,231
2015 ANIMAL BY-PRODUCTS, NEC-----	301	-----	-----	-----	301
2021 DAIRY PRODUCTS, NEC-----	529	-----	-----	529	-----
2034 VEGETABLES AND PREP, NEC-----	24,614	-----	-----	10,635	13,979
2039 PREP FRUIT AND VEG JUICE, NEC-----	2,091	-----	-----	953	1,138
2041 WHEAT FLOUR AND SEMOLINA-----	635	-----	-----	635	-----
2042 ANIMAL FEEDS-----	20,222	-----	-----	20,155	72
2046 GRAIN MILL PRODUCTS, NEC-----	16	-----	-----	-----	-----
2061 SUGAR-----	149,459	-----	-----	59	149,400
2062 MOLASSES-----	45,532	-----	28,233	1,400	15,899
2081 ALCOHOLIC BEVERAGES-----	13,798	-----	-----	13,798	-----
2091 VEGETABLE OILS, MARG, SHORT-----	577	-----	-----	577	-----
2094 GROCERIES-----	7,951	-----	-----	7,919	32
2099 MISCELLANEOUS FOOD PRODUCTS-----	94,728	28	-----	33,006	61,692
2211 BASIC TEXTILE PRODUCTS-----	248	-----	-----	248	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,312	-----	-----	1,282	30
2414 TIMBER, POSTS, POLES, PILING-----	90	-----	-----	79	11
2421 LUMBER-----	10,054	-----	26	8,946	1,086
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,942	-----	-----	1,942	-----
2491 WOOD MANUFACTURES, NEC-----	15,087	-----	-----	5,416	9,671
2511 FURNITURE AND FIXTURES-----	5,989	-----	-----	4,905	1,084
2621 STANDARD NEWSPRINT PAPER-----	153	-----	-----	153	-----
2631 PAPER AND PAPERBOARD-----	1,571	-----	-----	1,559	12
2691 PULP AND PAPER PRODUCTS, NEC-----	17,184	-----	-----	16,821	363
2711 PRINTED MATTER-----	52	-----	-----	52	-----
2810 SODIUM HYDROXIDE-----	2,960	-----	-----	2,960	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	3,964	1,870	-----	2,071	23
2821 PLASTIC MATERIALS-----	529	-----	-----	529	-----
2841 SOAP-----	1,603	-----	-----	1,603	-----
2851 PAINTS-----	775	-----	-----	775	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	11,460	4,868	-----	6,592	-----
2872 POTASSIC CHEM FERTILIZERS-----	5,860	5,860	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,483	-----	-----	1,483	-----
2876 INSECTICIDES, DISINFECTANTS-----	575	-----	-----	574	1
2879 FERTILIZER AND MATERIALS, NEC-----	15,940	4,807	-----	9,666	1,467
2891 MISCELLANEOUS CHEMICAL PROD-----	426	-----	-----	426	-----
2911 GASOLINE-----	63,936	-----	-----	63,936	-----
2912 JET FUEL-----	6,351	-----	-----	6,351	-----
2914 DISTILLATE FUEL OIL-----	24,901	-----	-----	24,901	-----
2915 RESIDUAL FUEL OIL-----	63,689	-----	-----	57,902	5,787
2916 LUBRICATING OILS AND GREASES-----	289	-----	-----	289	-----
2918 ASPHALT, TAR, AND PITCHES-----	171	-----	-----	171	-----
2921 LIQUEFIED GASES-----	13,776	-----	-----	13,776	-----
2951 ASPHALT BUILDING MATERIALS-----	65	-----	-----	65	-----
2991 PETROLEUM AND COAL PROD, NEC-----	1,833	-----	-----	1,833	-----
3011 RUBBER AND MISC PLASTIC PROD-----	4,073	-----	-----	3,966	107
3211 GLASS AND GLASS PRODUCTS-----	458	-----	-----	454	4
3241 BUILDING CEMENT-----	13,189	-----	-----	12,562	627
3251 STRUCTURAL CLAY PRODUCTS-----	273	-----	-----	273	-----
3281 CUT STONE AND STONE PRODUCTS-----	64	-----	-----	64	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4,264	-----	-----	4,264	-----
3312 SLAG-----	115	-----	-----	115	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,076	-----	-----	3,073	3
3316 IRON AND STEEL PLATES, SHEETS-----	1,868	-----	-----	1,868	-----
3317 IRON AND STEEL PIPE AND TUBE-----	2,427	-----	-----	2,427	-----
3411 FABRICATED METAL PRODUCTS-----	281,672	-----	-----	143,904	137,768
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,099	60	-----	897	142
3611 ELECTRICAL MACH AND EQUIP-----	234	-----	-----	234	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	95,993	822	-----	69,750	25,413
3721 AIRCRAFT AND PARTS-----	13	-----	-----	7	6
3731 SHIPS AND BOATS-----	1,327	-----	-----	1,034	293

PACIFIC OCEAN DIVISION

29

HILO HARBOR, HAWAII, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
3791 MISC TRANSPORTATION EQUIPMENT-----	12,913	-----	-----	9,704	3,209
3911 MISC MANUFACTURED PRODUCTS-----	3,307	-----	-----	2,765	542
4011 IRON AND STEEL SCRAP-----	996	-----	-----	-----	996
4112 COMMODITIES, NEC-----	103,289	-----	-----	93,519	9,770
4119 EMPTY CONTAINERS-----	131	-----	-----	16	115

KAWAIIAE HARBOR, HAWAII, HAWAII

SECTION INCLUDED: PORT OF KAWAIIAE. CONTROLLING DEPTH: 42.0 FEET IN ENTRANCE CHANNEL AND 36.0 FEET IN HARBOR BASIN. PROJECT DEPTH: HARBOR BASIN 35 FEET; ENTRANCE CHANNEL 40 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	318,197	1982-----	441,130
1978-----	502,451	1983-----	441,458
1979-----	447,521	1984-----	545,508
1980-----	516,116	1985-----	526,639
1981-----	432,704	1986-----	592,018

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	592,018	10,000	15,813	255,648	310,557
0122 HAY AND FODDER-----	21	-----	-----	-----	21
0141 FRESH AND FROZEN VEGETABLES-----	15	-----	-----	15	-----
0151 LIVE ANIMALS-----	47,017	-----	-----	5,960	41,057
0861 FOREST PRODUCTS, NEC-----	16	-----	-----	16	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,000	-----	-----	5,000	-----
1911 ORDNANCE AND ACCESSORIES-----	13	-----	-----	13	-----
2034 VEGETABLES AND PREP, NEC-----	7,341	-----	-----	1,225	6,116
2042 ANIMAL FEEDS-----	8,401	-----	-----	964	7,437
2049 GRAIN MILL PRODUCTS, NEC-----	225	-----	-----	225	-----
2061 SUGAR-----	137,365	-----	-----	-----	137,365
2062 MOLASSES-----	20,913	-----	15,813	-----	5,100
2081 ALCOHOLIC BEVERAGES-----	76	-----	-----	76	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	29,686	-----	-----	9,270	20,416
2411 LOGS-----	12	-----	-----	12	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	3	-----	-----	3	-----
2414 TIMBER, POSTS, POLES, PILING-----	25	-----	-----	25	-----
2421 LUMBER-----	3,347	-----	-----	2,794	553
2431 VENEER, PLYWOOD, WORKED WOOD-----	34	-----	-----	34	-----
2491 WOOD MANUFACTURES, NEC-----	3,163	-----	-----	1,078	2,085
2511 FURNITURE AND FIXTURES-----	2,026	-----	-----	1,996	30
2621 STANDARD NEWSPRINT PAPER-----	38	-----	-----	38	-----
2631 PAPER AND PAPERBOARD-----	113	-----	-----	113	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2,136	-----	-----	2,136	2
2819 BASIC CHEMICALS AND PROD, NEC-----	967	-----	-----	967	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	210	-----	-----	210	-----
2879 FERTILIZER AND MATERIALS, NEC-----	2,539	-----	-----	1,693	846
2891 MISCELLANEOUS CHEMICAL PROD-----	8	-----	-----	8	-----
2911 GASOLINE-----	14,087	-----	-----	14,087	-----
2914 DISTILLATE FUEL OIL-----	7,069	-----	-----	7,069	-----
2918 ASPHALT, TAR, AND PITCHES-----	926	-----	-----	926	-----
3011 RUBBER AND MISC PLASTIC PROD-----	718	-----	-----	718	-----
3211 GLASS AND GLASS PRODUCTS-----	287	-----	-----	9	278
3241 BUILDING CEMENT-----	25,607	10,000	-----	15,059	748
3291 MISC NONMETALLIC MINERAL PROD-----	247	-----	-----	247	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,274	-----	-----	2,274	-----
3317 IRON AND STEEL PIPE AND TUBE-----	586	-----	-----	586	-----
3411 FABRICATED METAL PRODUCTS-----	124,908	-----	-----	63,699	61,209
3511 MACHINERY, EXCEPT ELECTRICAL-----	33	-----	-----	33	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	65,999	-----	-----	69,392	16,607
3731 SHIPS AND BOATS-----	2,441	-----	-----	1,603	1,038
3791 MISC TRANSPORTATION EQUIPMENT-----	16,827	-----	-----	10,854	5,973
3911 MISC MANUFACTURED PRODUCTS-----	1	-----	-----	1	-----
4011 IRON AND STEEL SCRAP-----	38	-----	-----	38	-----
4112 COMMODITIES, NEC-----	38,858	-----	-----	34,982	3,876

KAHULUI HARBOR, MAUI, HAWAII

SECTION INCLUDED: PORT OF KAHULUI. CONTROLLING DEPTH: 34.0 FEET. PROJECT DEPTH: 35 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	1,301,095	8,390	1982-----	1,483,955	-----
1978-----	1,922,112	3,679	1983-----	1,842,568	-----
1979-----	1,473,307	-----	1984-----	1,889,204	-----
1980-----	1,441,524	-----	1985-----	1,516,509	-----
1981-----	1,551,944	-----	1986-----	1,626,650	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC (COASTWISE)	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,626,650	63,379	78,485	673,387	631,399
0105 RICE-----	1,094	-----	-----	1,071	23
0122 HAY AND FODDER-----	493	-----	-----	493	-----
0131 FRESH FRUITS-----	1,139	-----	-----	817	322
0133 COFFEE-----	1	-----	-----	1	-----
0141 FRESH AND FROZEN VEGETABLES-----	7,071	-----	-----	7,025	46
0151 LIVE ANIMALS-----	13,565	-----	-----	4,063	9,502
0161 ANIMALS AND PRODUCTS, NEC-----	20	-----	-----	20	-----
0861 FOREST PRODUCTS, NEC-----	409	-----	-----	203	206
0912 SHELLFISH, EXCEPT PREPARED-----	217	-----	-----	217	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	219	-----	-----	219	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	93,088	-----	-----	16,171	76,917
1451 CLAY-----	191	-----	-----	191	-----
1491 SALT-----	63	-----	-----	63	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	864	-----	-----	864	-----
1911 ORDNANCE AND ACCESSORIES-----	21	-----	-----	21	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	7,697	-----	-----	7,664	33
2015 ANIMAL BY-PRODUCTS, NEC-----	58	-----	-----	-----	58
2021 DAIRY PRODUCTS, NEC-----	916	-----	-----	916	-----
2034 VEGETABLES AND PREP, NEC-----	22,611	-----	-----	12,086	10,525
2039 PREP FRUIT AND VEG JUICE, NEC-----	121,780	-----	-----	294	121,486
2041 WHEAT FLOUR AND SEMOLINA-----	567	-----	-----	567	-----
2042 ANIMAL FEEDS-----	22,478	-----	-----	22,458	20
2049 GRAIN MILL PRODUCTS, NEC-----	18	-----	-----	18	-----
2051 SUGAR-----	145,687	-----	-----	26	145,661
2062 MOLASSES-----	90,305	-----	55,590	-----	34,715
2081 ALCOHOLIC BEVERAGES-----	17,144	-----	-----	17,118	26
2091 VEGETABLE OILS, MARG, SHORT-----	899	-----	-----	899	-----
2094 GROCERIES-----	8,114	-----	-----	8,105	9
2099 MISCELLANEOUS FOOD PRODUCTS-----	63,140	-----	-----	49,599	13,541
2211 BASIC TEXTILE PRODUCTS-----	374	-----	-----	374	-----
2411 LOGS-----	36	-----	-----	36	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	1,100	-----	-----	1,099	1
2414 TIMBER, POSTS, POLES, PILING-----	295	-----	-----	295	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	3,269	-----	3,269	-----	-----
2421 LUMBER-----	14,754	-----	-----	14,030	724
2431 VENEER, PLYWOOD, WORKED WOOD-----	3,370	-----	-----	3,370	-----
2491 WOOD MANUFACTURES, NEC-----	16,334	-----	-----	5,275	11,059
2511 FURNITURE AND FIXTURES-----	7,616	-----	-----	6,635	981
2621 STANDARD NEWSPRINT PAPER-----	50	-----	-----	50	-----
2631 PAPER AND PAPERBOARD-----	1,671	-----	-----	1,612	59
2691 PULP AND PAPER PRODUCTS, NEC-----	18,233	-----	-----	17,353	880
2711 PRINTED MATTER-----	59	-----	-----	59	-----
2810 SODIUM HYDROXIDE-----	100	-----	-----	100	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	9	-----	-----	-----	9
2818 SULPHURIC ACID-----	143	-----	-----	143	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,349	191	-----	1,358	-----
2821 PLASTIC MATERIALS-----	1,205	-----	-----	1,205	-----
2831 DRUGS-----	4	-----	-----	4	-----
2841 SOAP-----	801	-----	-----	801	-----
2851 PAINTS-----	359	-----	-----	359	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	11,289	4,073	-----	7,192	24
2872 POTASSIC CHEM FERTILIZERS-----	431	431	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	600	-----	-----	600	-----
2876 INSECTICIDES, DISINFECTANTS-----	617	-----	-----	617	-----
2879 FERTILIZER AND MATERIALS, NEC-----	1,641	-----	-----	1,611	30
2891 MISCELLANEOUS CHEMICAL PROD-----	882	-----	30	852	-----
2911 GASOLINE-----	51,812	-----	-----	51,812	-----
2912 JET FUEL-----	53,768	30,870	-----	22,898	-----
2914 DISTILLATE FUEL OIL-----	38,711	-----	19,590	19,121	-----
2915 RESIDUAL FUEL OIL-----	40,114	-----	-----	40,114	-----
2916 LUBRICATING OILS AND GREASES-----	637	-----	4	633	-----
2918 ASPHALT, TAR, AND BITUMENS-----	537	-----	-----	531	6
2921 LIQUEFIED GASES-----	11,076	-----	-----	11,078	-----
2951 ASPHALT BUILDING MATERIALS-----	323	-----	-----	323	-----
2991 PETROLEUM AND COAL PROD, NEC-----	1,265	-----	-----	1,265	-----
3011 RUBBER AND MISC PLASTIC PROD-----	4,294	-----	-----	4,091	203
3211 GLASS AND GLASS PRODUCTS-----	296	-----	-----	294	-----
3241 BUILDING CEMENT-----	32,384	-----	-----	31,575	809
3251 STRUCTURAL CLAY PRODUCTS-----	68	-----	-----	68	-----
3291 MISC NONMETALLIC MINERAL PROD-----	9,488	-----	-----	9,478	10
3312 SLAG-----	1,963	-----	-----	1,859	1,479
3315 IRON, STEEL SHAPES, EXC SHEET-----	8,906	5,112	-----	464	25
3316 IRON AND STEEL PLATES, SHEETS-----	732	-----	-----	732	-----
3317 IRON AND STEEL PIPE AND TUBE-----	2,887	-----	-----	2,887	-----
3411 FABRICATED METAL PRODUCTS-----	316,335	2	-----	169,245	121,088
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,141	-----	2	2,093	48
3611 ELECTRICAL MACH AND EQUIP-----	635	-----	-----	634	1

PACIFIC OCEAN DIVISION

31

KAHULUI HARBOR, MAUI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
3711 MOTOR VEHICLES, PARTS, EQUIP-----	156,821	2,700		102,168	51,953
3721 AIRCRAFT AND PARTS-----	21			16	
3731 SHIPS AND BOATS-----	2,785			2,522	463
3791 MISC TRANSPORTATION EQUIPMENT-----	28,833			20,870	7,963
3911 MISC MANUFACTURED PRODUCTS-----	2,129			1,347	742
4011 IRON AND STEEL SCRAP-----	1,602			15	1,567
4112 COMMODITIES, NEC-----	156,156			138,579	17,777
4119 EMPTY CONTAINERS-----	399			14	385

BARBERS POINT HARBOR, OAHU, HAWAII

SECTION INCLUDED: BARBERS POINT HARBOR. CONTROLLING DEPTH: 42 FEET IN THE ENTRANCE CHANNEL AND 38 FEET IN THE MAIN ACCESS CHANNEL AND BASIN. PROJECT DEPTH: 42 FEET IN THE ENTRANCE CHANNEL; 38 FEET IN THE DEEP-DRAFT HARBOR MAIN ACCESS CHANNEL AND BASIN; 21 FEET IN LIGHT-DRAFT HARBOR BASIN.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	6,630,994	1982-----	5,707,386
1978-----	6,306,580	1983-----	7,051,230
1979-----	6,154,541	1984-----	6,564,687
1980-----	5,725,722	1985-----	6,751,709
1981-----	5,589,741	1986-----	5,629,312

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE		INTERNAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	5,629,312	2,911,258	200,450	2,291,457	274,698	1,225
1311 CRUDE PETROLEUM-----	4,644,940	2,911,258		1,733,682		
1402 SAND, GRAVEL, CRUSHED ROCK-----	5,835				3,835	
2911 GASOLINE-----	61,774			35,127	26,647	
2912 JET FUEL-----	10,285	26		10,259		
2914 DISTILLATE FUEL OIL-----	136,381			100,774	35,587	
2915 RESIDUAL FUEL OIL-----	725,369		146,818	361,615	175,711	1,225
2917 NAPHTHA, PETROLEUM SOLVENTS-----	22,226		13,832		8,394	
2921 LIQUEFIED GASES-----	24,522				24,522	

HONOLULU HARBOR, OAHU, HAWAII

SECTION INCLUDED: PORT OF HONOLULU. CONTROLLING DEPTH: 45.0 FEET IN THE ENTRANCE CHANNEL; 40.0 FEET IN THE MAIN HARBOR BASIN; 40.0 FEET IN KAPALANA BASIN; 40.0 FEET IN THE CONNECTING CHANNEL. PROJECT DEPTH: 45.0 FEET IN THE ENTRANCE CHANNEL; 40 FEET IN HARBOR BASIN, CONNECTING CHANNEL; 35.0 FEET IN KALIMI CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	6,881,556	303,291	1982-----	7,593,097	465,466
1978-----	7,750,537	183,721	1983-----	8,039,850	688,689
1979-----	7,463,663	311,899	1984-----	8,469,971	741,922
1980-----	7,646,270	547,242	1985-----	7,986,133	1,102,198
1981-----	8,269,671	521,624	1986-----	8,603,760	708,268

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	8,603,760	632,632	150,514	4,343,436	3,301,853	7,395	46,672	121,258
0102 BARLEY AND RYE-----	51,902	51,893	9					
0103 CORN-----	4,845			4,845				
0105 RICE-----	50,894	871	1,362	45,511	3,150			
0106 SORGHUM GRAINS-----	10		10					
0111 SOYBEANS-----	45	4		41				
0119 OILSEEDS, NEC-----	1,880	1,880						
0122 HAY AND FODDER-----	1,472			1,430	42			
0129 FIELD CROPS, NEC-----	39	24	15					
0131 FRESH FRUITS-----	426,542	1,481	57	335,507	89,497			
0132 BANANAS AND PLANTAINS-----	5,493	6		5,487				
0133 COFFEE-----	3,222		76	2,216	930			
0141 FRESH AND FROZEN VEGETABLES-----	124,289	1,316	76	102,129	20,764			

HONOLULU HARBOR, DANU, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	COASTWISE SHIPMENTS	INTERNAL RECEIPTS	INTERNAL SHIPMENTS	
0151 LIVE ANIMALS-----	79,373	17	-----	67,508	11,888	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	2,120	86	46	1,556	452	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	124	51	73	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	11,226	321	1	5,769	5,135	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	3,517	3,434	83	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	6,261	863	12	4,662	724	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	60	60	-----	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	9,649	9,649	-----	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	2,162	-----	-----	1,751	411	-----	-----	-----
1311 CRUDE PETROLEUM-----	420,343	77,283	-----	343,060	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	21	-----	20	1	-----	-----	-----	-----
1462 SAND, GRAVEL, CRUSHED ROCK-----	195,010	22,335	-----	64,930	107,745	-----	-----	-----
1491 CLAY-----	572	58	1	322	191	-----	-----	-----
1491 PHOSPHATE ROCK-----	12	-----	12	-----	-----	-----	-----	-----
1491 SALT-----	11,133	-----	-----	10,597	536	-----	-----	-----
1492 SULPHUR, DRY-----	6,211	-----	6,211	-----	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	8,239	-----	-----	6,735	1,504	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	5,689	1	53	5,635	-----	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	136	-----	-----	47	80	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	139,524	6,142	1,067	110,028	22,287	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	282	-----	202	20	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	1,172	-----	263	413	496	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	17,286	562	15	15,201	1,508	-----	-----	-----
2022 DRIED MILK AND CREAM-----	769	566	203	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	3,566	3,562	4	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	166,808	8,017	139	125,799	32,853	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	398,930	5,456	3,764	131,569	256,141	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	12,493	-----	1,479	9,766	1,246	-----	-----	-----
2042 ANIMAL FEEDS-----	141,131	20,718	324	63,919	56,170	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	13,834	12,248	1,024	510	52	-----	-----	-----
2061 SUGAR-----	126,089	40	514	1,419	124,720	-----	-----	-----
2062 MOLASSES-----	275,392	-----	-----	106,422	168,970	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	196,630	6,872	576	151,330	37,852	-----	-----	-----
2091 VEGETABLE OILS, MAKG, SHORT-----	19,475	167	88	17,423	1,777	-----	-----	-----
2094 GROCERIES-----	109,121	-----	-----	89,615	19,506	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	256,618	5,342	2,909	126,762	121,605	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	1,869	160	-----	1,703	4	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	7,799	2,944	245	3,929	661	-----	-----	-----
2212 TEXTILE FIBERS, NEC-----	3	-----	-----	3	-----	-----	-----	-----
2311 APPAREL-----	962	953	9	-----	-----	-----	-----	-----
2411 LOGS-----	2,745	-----	66	2,631	48	-----	-----	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	10,897	345	-----	7,750	2,802	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	640	9	7	504	120	-----	-----	-----
2421 LUMBER-----	190,375	342	2,135	164,795	23,103	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	36,941	1,268	530	32,518	4,605	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	97,528	1,971	72	61,472	34,013	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	98,635	4,785	49	34,444	59,555	-----	-----	-----
2611 PULP-----	776	-----	300	476	-----	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	25,499	21,229	-----	4,270	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	32,979	311	7	28,696	3,965	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	114,168	899	131	74,109	39,029	-----	-----	-----
2711 PRINTED MATTER-----	9,282	1,875	10	7,221	176	-----	-----	-----
2810 SODIUM HYDROXIDE-----	1,749	-----	-----	1,749	-----	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	1	1	-----	-----	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	1,480	-----	-----	1,480	-----	-----	-----	-----
2813 ALCOHOLS-----	4	-----	4	-----	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	800	-----	-----	24	776	-----	-----	-----
2817 BENZENE AND TOLUENE-----	22,002	22,002	-----	-----	-----	-----	-----	-----
2818 SULPHURIC ACID-----	183	-----	-----	-----	183	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	23,763	1,452	19	16,445	5,847	-----	-----	-----
2821 PLASTIC MATERIALS-----	6,778	748	21	6,093	1,916	-----	-----	-----
2831 DRUGS-----	3,547	100	6	3,402	39	-----	-----	-----
2841 SOAP-----	30,209	360	102	27,036	2,711	-----	-----	-----
2851 PAINTS-----	13,963	45	67	12,501	1,350	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	57,137	6,677	-----	35,515	14,945	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	2,583	2,583	-----	-----	-----	-----	-----	-----
2873 PHOSPHATIC CHEM FERTILIZERS-----	1,500	-----	-----	1,500	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	4,670	-----	5	2,695	1,970	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	16,714	2,246	194	4,884	9,390	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	4,657	233	132	3,055	1,437	-----	-----	-----
2911 GASOLINE-----	203,845	3,606	19,693	24,400	151,878	-----	-----	4,268
2912 JET FUEL-----	245,079	112,232	-----	92,518	36,600	-----	-----	3,649
2914 DISTILLATE FUEL OIL-----	69,388	-----	-----	1	67,783	-----	-----	1,604
2915 RESIDUAL FUEL OIL-----	340,215	-----	13,380	67,068	74,203	7,395	46,672	111,497
2916 LUBRICATING OILS AND GREASES-----	7,327	-----	22	5,822	1,483	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	5,033	-----	5,033	-----	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	25,179	-----	-----	20,793	6,386	-----	-----	-----
2921 LIQUEFIED GASES-----	7,477	9	59	-----	7,409	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	3,621	-----	397	3,074	350	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	25,152	1	-----	21,223	3,928	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	27,492	5,043	544	9,648	12,257	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	1,721	1,720	1	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	7,177	2,565	28	3,612	972	-----	-----	-----
3291 BUILDING CEMENT-----	166,238	84,855	1	4,550	76,824	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	6,859	3,303	29	3,101	426	-----	-----	-----
3271 LIME-----	19	-----	-----	19	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	2,505	615	1	1,309	580	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	89,173	1,141	1,133	68,601	18,298	-----	-----	-----
3312 SLAB-----	8,578	-----	-----	7,977	601	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	1,049	1,049	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	42,104	29,774	19	1,453	10,858	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	15,025	-----	466	11,728	2,831	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	22,615	2,323	14	12,893	7,585	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	2,208	2,196	12	-----	-----	-----	-----	-----

PACIFIC OCEAN DIVISION

33

HONOLULU HARBOR, OAHU, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3321 NONFERROUS METALS, NEC	6,127	3		6,124				
3322 COPPER ALLOYS, UNWORKED	319	274	45					
3323 LEAD AND ZINC, UNWORKED	37	65		289				
3324 ALUMINUM AND ALLOYS, UNWORKED	40	9	4	27				
3411 FABRICATED METAL PRODUCTS	1,125,994	7,250	458	523,937	594,349			
3511 MACHINERY, EXCEPT ELECTRICAL	34,304	3,832	481	15,672	14,319			
3611 ELECTRICAL MACH AND EQUIP	14,495	4,260	1,776	7,149	1,310			
3711 MOTOR VEHICLES, PARTS, EQUIP	612,960	44,355	624	201,506	366,475			
3721 AIRCRAFT AND PARTS	143	6	3	64	50			
3731 SHIPS AND BOATS	11,284	701	67	3,002	7,514			
3791 MISC TRANSPORTATION EQUIPMENT	77,934		22	25,643	52,269			
3811 INSTR, TIME, PHOTO, OPT GOODS	980	954	26					
3911 MISC MANUFACTURED PRODUCTS	40,364	5,004	78	20,547	14,735			
4011 IRON AND STEEL SCRAP	55,700		44,024	3,416	8,260			
4012 NONFERROUS METAL SCRAP	7,373		7,373					
4022 TEXTILE WASTE, SCRAP, SWEEP	21		21					
4024 PAPER WASTE AND SCRAP	29,072		29,002		70			
4029 WASTE AND SCRAP, NEC	164,540			183,900	640			
4111 WATER	551				311			240
4112 COMMODITIES, NEC	915,026	472	883	469,050	444,621			
4119 EMPTY CONTAINERS	21,228			2,453	18,775			

NAWILIWILI HARBOR, KAUAI, HAWAII

SECTION INCLUDED: PORT OF NAWILIWILI. CONTROLLING DEPTH: 41.0 FEET IN THE OUTER CHANNEL; 41.0 FEET IN THE INNER CHANNEL; 33.0 FEET IN THE HARBOR BASIN. PROJECT DEPTH: 40 FEET IN THE CHANNEL; 35 FEET IN THE HARBOR BASIN.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977	557,798	70,063	1982	808,153	
1978	765,877	6,384	1983	1,008,699	
1979	757,899		1984	944,770	
1980	785,212		1985	933,477	
1981	906,595		1986	745,396	

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL	745,396	5,522	1	439,921	299,952
0103 CORN	8,180			5,180	
0105 RICE	629			629	
0122 HAY AND FODDER	16			16	
0131 FRESH FRUITS	76			63	13
0141 FRESH AND FROZEN VEGETABLES	4,659			4,659	
0151 LIVE ANIMALS	5,835			949	4,886
0161 ANIMALS AND PRODUCTS, NEC	13			13	
0861 FOREST PRODUCTS, NEC	72			72	
0912 SHELLFISH, EXCEPT PREPARED	50			50	
1091 NONFERROUS ORES, CONCENT, NEC	39			39	
1494 GYPSUM, CRUDE AND PLASTER	136			136	
1911 ORDNANCE AND ACCESSORIES	10			6	8
2011 MEAT, FRESH, CHILLED, FROZEN	3,150			3,150	
2015 ANIMAL BY-PRODUCTS, NEC	50				50
2021 DAIRY PRODUCTS, NEC	63			56	7
2034 VEGETABLES AND PREP, NEC	7,607			4,831	2,776
2039 PREP FRUIT AND VEG JUICE, NEC	3,017			36	2,981
2041 WHEAT FLOUR AND SEMOLINA	44			44	
2042 ANIMAL FEEDS	11,004			10,998	6
2061 SUGAR	89,203			5	89,200
2062 MOLASSES	46,434				46,434
2081 ALCOHOLIC BEVERAGES	6,984			6,984	
2091 VEGETABLE OILS, MARG, SHORT	244			244	
2094 GROCERIES	3,196			3,196	
2099 MISCELLANEOUS FOOD PRODUCTS	27,151			23,911	3,240
2211 BASIC TEXTILE PRODUCTS	16			16	
2413 FUEL WOOD, CHARCOAL, WASTES	348			300	48
2421 LUMBER	9,454			9,290	164
2431 VENEER, PLYWOOD, WORKED WOOD	1,161			1,161	
2491 WOOD MANUFACTURES, NEC	7,476			1,646	5,830
2511 FURNITURE AND FIXTURES	3,566			3,171	395
2621 STANDARD NEWSPRINT PAPER	100			100	
2631 PAPER AND PAPERBOARD	1,150			1,099	59
2691 PULP AND PAPER PRODUCTS, NEC	2,964			2,900	64
2711 PRINTED MATTER	65			65	
2810 SODIUM HYDROXIDE	777			777	
2816 RADIOACTIVE MATERIALS, WASTES	15				15
2818 SULPHURIC ACID	40			40	
2819 BASIC CHEMICALS AND P, O, NEC	763		312	448	3
2821 PLASTIC MATERIALS	222			222	
2841 SOAP	221			221	

Waterborne Commerce of the United States, 1986

HAWAIIAN MARSH, KAUAI, HAWAII--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC COASTWISE	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
2851 PAINTS-----	115	-----	-----	115	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	3,859	2,731	-----	1,128	-----
2872 POTASSIC CHEM FERTILIZERS-----	2,477	2,477	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	285	-----	-----	285	-----
2879 FERTILIZER AND MATERIALS, NEC-----	3,934	-----	-----	3,810	124
2891 MISCELLANEOUS CHEMICAL PROD-----	91	-----	-----	91	-----
2911 GASOLINE-----	18,630	-----	-----	18,630	-----
2912 JET FUEL-----	6,682	-----	-----	6,682	-----
2914 DISTILLATE FUEL OIL-----	1,668	-----	-----	1,668	-----
2916 LUBRICATING OILS AND GREASES-----	561	-----	-----	561	-----
2918 ASPHALT, TAR, AND PITCHES-----	1,779	-----	-----	1,779	-----
2921 LIQUEFIED GASES-----	6,277	-----	-----	6,277	-----
2951 ASPHALT BUILDING MATERIALS-----	153	-----	-----	153	-----
2991 PETROLEUM AND COAL PROD, NEC-----	600	-----	-----	600	-----
3011 RUBBER AND MISC PLASTIC PROD-----	3,028	-----	-----	2,881	147
3211 GLASS AND GLASS PRODUCTS-----	179	-----	-----	175	3
3241 BUILDING CEMENT-----	19,375	-----	-----	19,208	167
3251 STRUCTURAL CLAY PRODUCTS-----	61	-----	-----	61	-----
3281 CUT STONE AND STONE PRODUCTS-----	516	-----	-----	516	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4,288	-----	-----	4,288	-----
3312 SLAG-----	22	-----	-----	22	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,946	-----	-----	3,725	221
3316 IRON AND STEEL PLATES, SHEETS-----	203	-----	-----	203	-----
3317 IRON AND STEEL PIPE AND TUBE-----	2,302	-----	-----	2,302	-----
3411 FABRICATED METAL PRODUCTS-----	210,919	-----	-----	109,672	101,247
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,028	-----	1	1,013	14
3611 ELECTRICAL MACH AND EQUIP-----	304	-----	-----	304	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	97,070	2	-----	71,194	25,876
3721 AIRCRAFT AND PARTS-----	11	-----	-----	10	1
3731 SHIPS AND BOATS-----	2,150	-----	-----	1,723	427
3791 MISC TRANSPORTATION EQUIPMENT-----	17,572	-----	-----	9,893	7,679
3911 MISC MANUFACTURED PRODUCTS-----	1,545	-----	-----	1,268	277
4011 IRON AND STEEL SCRAP-----	512	-----	-----	-----	512
4112 COMMODITIES, NEC-----	86,869	-----	-----	79,961	6,908
4119 EMPTY CONTAINERS-----	168	-----	-----	-----	168

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
HANA HARBOR, MAUI, HAWAII-----	2918 ASPHALT, TAR, AND PITCHES-----	21	-----	-----
KAILUA HARBOR, OAHU, HAWAII-----	NO COMMERCE REPORTED		-----	-----
KALAUPAPA HARBOR, MOLOKAI, HAWAII-----	2421 LUMBER-----	52	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	20	-----	-----
	2511 FURNITURE AND FIXTURES-----	7	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	2	-----	-----
	3315 IRON, STEEL SHAPES, EAC SHEET-----	3	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	306	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	502	-----	-----
	3731 SHIPS AND BOATS-----	11	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	42	-----	-----
	4112 COMMODITIES, NEC-----	624	-----	-----
	TOTAL-----	1,549	-----	-----
KAUNAKAKAI HARBOR, MOLOKAI, HAWAII-----	0122 HAY AND FOODSTUFF-----	1,478	-----	-----
	0131 FRESH FRUITS-----	39,684	-----	-----
	0151 LIVE ANIMALS-----	12,540	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	8,495	-----	-----
	1911 ORDNANCE AND ACCESSORIES-----	6	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	11,745	-----	-----
	2042 ANIMAL FEEDS-----	1,841	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	5,092	-----	-----
	2311 APPAREL-----	3	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	1	-----	-----
	2421 LUMBER-----	1,174	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	3,446	-----	-----
	2511 FURNITURE AND FIXTURES-----	741	-----	-----
	2631 PAPER AND PAPERBOARD-----	2	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	44	-----	-----
	2699 FERTILIZER AND MATERIALS, NEC-----	362	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	5	-----	-----
	2911 GASOLINE-----	3,413	-----	-----
	2912 JET FUEL-----	749	-----	-----
	2914 DISTILLATE FUEL OIL-----	3,402	-----	-----
	2918 ASPHALT, TAR, AND PITCHES-----	571	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	397	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	6	-----	-----
	3241 BUILDING CEMENT-----	593	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	3	-----	-----
	3312 SLAG-----	2,000	-----	-----
	3315 IRON, STEEL SHAPES, EAC SHEET-----	113	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	349	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	100,250	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	27,827	-----	-----
	3731 SHIPS AND BOATS-----	824	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	2,042	-----	-----
	4011 IRON AND STEEL SCRAP-----	345	-----	-----
	4112 COMMODITIES, NEC-----	20,121	-----	-----
	TOTAL-----	246,467	-----	-----
PORT ALLEN HARBOR, KAUAI, HAWAII-----	2062 MOLASSES-----	8,048	-----	-----
	2912 JET FUEL-----	1,782	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,937	-----	-----
	TOTAL-----	11,767	-----	-----
NAKE ISLAND HARBOR, NAKE ISLAND-----	2912 JET FUEL-----	1,782	-----	-----
NELLS HARBOR, MIDWAY ISLAND-----	2912 JET FUEL-----	5,346	-----	-----
NONPROJECT				
KAUNALAPAU HARBOR, LANAI, HAWAII-----	0131 FRESH FRUITS-----	274,339	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	106	-----	-----
	0151 LIVE ANIMALS-----	2	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	12,550	-----	-----
	2421 LUMBER-----	395	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	18,646	-----	-----
	2671 NITROGENOUS CHEM FERTILIZERS-----	9	-----	-----
	2676 INSECTICIDES, DISINFECTANTS-----	495	-----	-----
	2679 FERTILIZER AND MATERIALS, NEC-----	1,078	-----	-----
	2914 DISTILLATE FUEL OIL-----	21	-----	-----
	2918 ASPHALT, TAR, AND PITCHES-----	672	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	40	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,935	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	864	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	4	-----	-----
	4112 COMMODITIES, NEC-----	5,085	-----	-----
	4119 EMPTY CONTAINERS-----	13,099	-----	-----
	TOTAL-----	330,342	-----	69,242

Waterborne Commerce of the United States, 1986

36

WALLA WALLA, WA, DISTRICT

COLUMBIA RIVER AND TRIBUTARIES ABOVE McNARY LOCK AND DAM TO KENNEWICK, WASH.

SECTION INCLUDED: COLUMBIA RIVER AND TRIBUTARIES, McNARY LOCK AND DAM TO KENNEWICK, WASH. CONTROLLING DEPTHS: 20 TO 92 FEET. PROJECT DEPTHS: 14 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	4,506,615	1982-----	6,875,148
1978-----	5,696,445	1983-----	6,410,246
1979-----	6,475,369	1984-----	6,789,785
1980-----	7,238,066	1985-----	5,235,471
1981-----	7,491,927	1986-----	5,789,534

* PASSENGERS--6,213.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL				
		INBOUND	OUTBOUND	UPBOUND	UPBOUND	DOWNBOUND
TOTAL-----	5,789,534	938,712	1,006,218	4,029	666,434	3,174,141
0102 BARLEY AND RYE-----	329,438		50,345			279,093
0103 CORN-----	748		748			
0107 WHEAT-----	3,046,471		729,319			2,317,152
0111 SOYBEANS-----	631		606			25
0122 HAY AND FODDER-----	8,512		4,535			3,977
0129 FIELD CROPS, NEC-----	76,230		8,079		19,359	48,792
0141 FRESH AND FROZEN VEGETABLES-----	10,875	114	1,458			9,303
0161 ANIMALS AND PRODUCTS, NEC-----	4,290		4,290			
2015 ANIMAL BY-PRODUCTS, NEC-----	14,097		14,097			
2034 VEGETABLES AND PREP, NEC-----	10,945		20			10,925
2042 ANIMAL FEEDS-----	1,675		1,585		90	
2062 MOLASSES-----	14,122				14,122	
2411 LOGS-----	29,263					29,263
2413 FUEL WOOD, CHARCOAL, WASTES-----	13,833	550			838	12,445
2414 TIMBER, POSTS, POLES, PILING-----	9,826					9,826
2416 WOOD CHIPS, STAVES, MOLDINGS-----	407,657		80,922		39,604	287,131
2421 LUMBER-----	857					857
2431 VENEER, PLYWOOD, WORKED WOOD-----	88					88
2611 PULP-----	61,995		61,995			
2631 PAPER AND PAPERBOARD-----	32,708		81		9	32,618
2691 PULP AND PAPER PRODUCTS, NEC-----	13,165					13,165
2819 BASIC CHEMICALS AND PROD, NEC-----	135,838	131,998			3,840	
2871 NITROGENOUS CHEM FERTILIZERS-----	66,947	7,998	43,943	4,029	10,977	
2876 INSECTICIDES, DISINFECTANTS-----	334					
2911 GASOLINE-----	601,797	268,902	2,092		233,049	97,754
2912 JET FUEL-----	46,009		1,927		37,604	6,478
2914 DISTILLATE FUEL OIL-----	749,995	480,431			255,526	14,038
2915 RESIDUAL FUEL OIL-----	84,733	41,520			43,213	
2916 LUBRICATING OILS AND GREASES-----	4,896	4,896				
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,058		33		1	1,024
4011 IRON AND STEEL SCRAP-----	75		75			
4119 EMPTY CONTAINERS-----	10,426	1,969	68		8,202	187
TOTAL TON-MILES, 224,396,154.						

SNAKE RIVER, OREG., WASH., AND IDAHO

SECTION INCLUDED: MOUTH OF SNAKE RIVER TO JOHNSON BAR LANDING. CONTROLLING DEPTHS: 14 FEET FROM MOUTH TO ICE HARBOR LOCK APPROACH CHANNEL; 14 FEET IN ICE HARBOR APPROACH CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET WITHIN LOWER GRANITE POOL; ABOUT 3.0 FEET FROM HEAD OF LOWER GRANITE POOL TO JOHNSON BAR LANDING. PROJECT DEPTHS: 14 FEET FROM MOUTH TO THE ICE HARBOR APPROACH CHANNEL; 14 FEET IN ICE HARBOR CHANNEL; 14 FEET WITHIN ICE HARBOR POOL; 14 FEET IN LOWER MONUMENTAL APPROACH CHANNEL; 14 FEET WITHIN LOWER MONUMENTAL POOL; 14 FEET IN LITTLE GOOSE APPROACH CHANNEL; 14 FEET IN LITTLE GOOSE CHANNEL; 14 FEET WITHIN LITTLE GOOSE POOL; 14 FEET IN LOWER GRANITE APPROACH CHANNEL; 14 FEET IN LOWER GRANITE CHANNEL; 14 FEET WITHIN LOWER GRANITE POOL; 2 FEET TO JOHNSON BAR LANDING.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	2,911,249		1982-----	5,065,328	121
1978-----	3,852,302		1983-----	4,679,144	63
1979-----	4,356,735		1984-----	4,852,015	4,364
1980-----	5,063,613	865	1985-----	3,518,814	5,730
1981-----	5,335,162	1,779	1986-----	5,042,623	7,106

WALLA WALLA, WA, DISTRICT

37

SNAKE RIVER, OREG., WASH., AND IDAHO--CONTINUED

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL				THROUGH	
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	5,042,623	715,165	2,177,731	76,800	1,050,400	20,940	1,001,587
0102 BARLEY AND RYE-----	279,093		178,709				100,384
0107 WHEAT-----	2,517,152		1,459,686				657,466
0111 SOYBEANS-----	25		25				
0122 HAY AND FORAGE-----	3,977		3,977				
0129 FIELD CROPS, NEC-----	69,759	27	992			20,940	47,800
0141 FRESH AND FROZEN VEGETABLES-----	9,303		9,303				
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,126,800			76,800	1,050,000		
2034 VEGETABLES AND PREP, NEC-----	10,925		10,925				
2042 ANIMAL FEEDS-----	90		90				
2062 MOLASSES-----	14,122	14,122					
2411 LOGS-----	29,263		29,263				879
2413 FUEL WOOD, CHARCOAL, WASTES-----	13,283	838	877				11,568
2414 TIMBER, POSTS, POLES, PILING-----	11,476	1,650	6,643				3,183
2416 WOOD CHIPS, STAVES, MOLDINGS-----	331,153	44,022	110,906				176,225
2421 LUMBER-----	857		857				
2431 VENEER, PLYWOOD, WORKED WOOD-----	88		88				
2631 PAPER AND PAPERBOARD-----	32,627	9	29,536				3,082
2691 PULP AND PAPER PRODUCTS, NEC-----	13,165		13,165				
2819 BASIC CHEMICALS AND PROD, NEC-----	3,840	3,840					
2871 NITROGENOUS CHEM FERTILIZERS-----	40,980	40,980					
2879 FERTILIZER AND MATERIALS, NEC-----	400				400		
2911 GASOLINE-----	334,874	235,141	99,737				
2912 JET FUEL-----	40,082	37,604	6,478				
2914 DISTILLATE FUEL OIL-----	272,631	255,526	17,105				
2915 RESIDUAL FUEL OIL-----	43,213	43,213					
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,025	1	24				1,000
4029 WASTE AND SCRAP, NEC-----	900	900					
4118 WATERWAY IMPROVEMENT MAT-----	29,000	29,000					
4119 EMPTY CONTAINERS-----	8,516	8,202	314				
TOTAL TON-MILES, 346,256,424.							

Waterborne Commerce of the United States, 1986

PORTLAND, OR, DISTRICT

TOTAL WATERBORNE COMMERCE, COLUMBIA RIVER BASIN, OREG., WASH., AND IDAHO

CALENDAR YEAR 1986

(SHORT TONS)

LOCALITY	FOREIGN		DOMESTIC				TOTAL	PERCENT	THROUGH TRAFFIC*
	IMPORTS	EXPORTS	COASTWISE		INTERNAL RECEIPTS AND SHIPMENTS	LOCAL			
			RECEIPTS	SHIPMENTS					
SNARE RIVER, OREG., WASH., AND IDAHO	-----	-----	-----	-----	2,892,896	1,127,200	4,020,096	7.08	1,022,527
COLUMBIA RIVER, ALNATCHEE TO KETTLE FALLS, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----
COLUMBIA RIVER AND TRIBUTARIES ABOVE MCVARY LOCK AND DAM TO KENNEBICK, WASH	-----	-----	-----	-----	1,944,930	4,029	1,948,959	3.43	3,840,575
COLUMBIA RIVER AND TRIBUTARIES ABOVE THE DALLES DAM, WASH., AND OREG., TO MCVARY LOCK AND DAM, OREG., AND WASH.	-----	-----	-----	-----	668,488	-----	668,488	1.18	5,744,453
COLUMBIA RIVER BETWEEN VANCOUVER, WASH. AND THE DALLES, OREG.	-----	-----	-----	-----	1,947,175	886,503	2,833,678	4.99	6,300,690
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.	12,409	-----	-----	-----	2,213,588	1,517,952	3,743,949	6.59	-----
OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.	-----	-----	35,780	116,112	479,821	-----	631,713	1.11	-----
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.	3,745,761	20,741,258	2,876,408	534,832	10,296,501	2,728,852	40,925,612	72.03	1,389,658
MULTNOMAH CHANNEL, OREG.	-----	-----	-----	-----	1,385,980	3,938	1,389,918	2.45	-----
LAKE RIVER, WASH.	-----	-----	-----	-----	33	-----	33	.01	-----
LEWIS RIVER, WASH.	-----	-----	-----	-----	158,794	-----	158,794	.28	-----
COLLITZ RIVER, WASH.	-----	-----	-----	-----	420	-----	420	.01	-----
CLATSkanie RIVER, OREG.	-----	-----	-----	-----	2,044	-----	2,044	.01	-----
WESTPORT SLOUGH, OREG.	-----	-----	-----	-----	-----	-----	-----	-----	-----
ELOKOMIN SLOUGH, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----
SKANDAWANA (STEAMBOAT) SLOUGH, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----
SKANDAWANA CREEK, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----
GRAYS RIVER, WASH.	-----	-----	-----	-----	-----	-----	-----	-----	-----
DEEP RIVER, WASH.	-----	-----	-----	-----	133,681	350	134,031	.24	-----
YOUNGS BAY AND YOUNGS RIVER, OREG.	-----	-----	-----	-----	159,193	37,921	177,114	.31	-----
SKIPANOV CHANNEL, OREG.	-----	-----	-----	-----	116,156	-----	116,156	.20	-----
CHINOOK CHANNEL, WASH.	-----	-----	-----	-----	21,333	-----	21,333	.04	-----
COLUMBIA RIVER AT BAKERS BAY, WASH.	-----	-----	-----	-----	24,835	-----	24,835	.04	-----
TOTAL (UNADJUSTED)-----	3,758,170	20,741,258	2,914,188	650,944	22,425,868	6,306,745	56,797,173	-----	18,247,903
PERCENT (UNADJUSTED)-----	6.62	36.52	5.13	1.15	39.48	11.10	-----	100.00	-----
NET VOLUME OF TONNAGE FOR THE BASIN**-----	3,758,170	20,741,258	2,914,188	650,944	11,230,602	6,306,745	45,601,907	-----	-----
PERCENT (ADJUSTED)-----	8.24	45.48	6.39	1.43	24.63	13.83	-----	100.00	-----

* THROUGH TRAFFIC NOT CREDITED AS SUCH TO TOTAL TONNAGE FOR BASIN, BUT CREDITED TO PROJECTS OR RIVERS WHERE SHIPPED OR RECEIVED.
 ** ADJUSTED TO NET VOLUME BY EXCLUDING ONE-HALF OF INTERNAL TRAFFIC MOVED BETWEEN THE SEPARATE WATERWAYS OF THE BASIN.

COLUMBIA RIVER ENTRANCE, OREG. AND WASH.

SECTION INCLUDED: COLUMBIA RIVER AT MOUTH, OREG. AND WASH. CONTROLLING DEPTHS: 47 FEET LEFT OUTSIDE, 45 FEET LEFT INSIDE, 43 FEET RIGHT INSIDE, AND 40 FEET RIGHT OUTSIDE, AT MEAN LOW WATER. AT CLATSOP SPIT, 44 FEET FOR LEFT QUARTER, 45 FEET CENTER OF CHANNEL, AND 32 FEET RIGHT QUARTER. PROJECT DEPTHS: 48 FEET OVER BAR.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL	YEAR	FOREIGN THROUGH		DOMESTIC THROUGH		TOTAL
	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND	
1977	4,045,515	12,821,383	4,213,078	813,554	21,893,330	1982	3,050,799	18,648,610	3,770,603	507,124	25,977,136
1978	4,323,696	16,510,367	5,122,788	909,658	26,866,509	1983	3,655,059	20,695,740	3,513,978	1,941,579	29,806,356
1979	4,755,280	17,893,640	6,006,252	1,019,041	29,676,213	1984	3,957,792	24,515,241	3,488,755	1,459,300	33,421,088
1980	4,452,226	19,667,507	5,224,056	862,464	30,206,253	1985	3,939,639	21,312,885	2,656,424	659,655	28,568,603
1981	3,821,723	19,963,821	4,369,793	447,875	28,603,212	1986	3,758,170	20,741,258	2,932,355	655,703	28,087,486

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY
(CONSOLIDATED REPORT)

SECTION INCLUDED: MOUTH TO INTERNATIONAL BOUNDARY, A DISTANCE OF 745 MILES. CONTROLLING DEPTHS: 38 FEET OR BETTER BETWEEN MOUTH OF COLUMBIA RIVER AND MOUTH OF WILLAMETTE RIVER; 38 FEET TO LOWER TURNING BASIN, VANCOUVER, WASH.; OTHER CHANNEL DEPTHS RANGE FROM 15 TO 4 FEET. PROJECT DEPTHS: 55/48 FEET ACROSS ENTRANCE BAR; 40 FEET FROM MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE RIVER; 40 FEET FROM MOUTH OF WILLAMETTE RIVER TO VANCOUVER; OTHER PROJECT DEPTHS RANGE FROM 27 TO 7 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977	31,627,507	6,914,260	38,541,767	62,606	1982	37,296,858	4,368,429	41,665,287	60,851
1978	37,872,172	5,852,629	43,724,801	91,601	1983	41,488,095	4,070,207	45,558,302	105,161
1979	41,189,227	5,869,843	47,059,070	117,301	1984	45,329,836	4,051,701	49,381,537	431,679
1980	42,924,434	6,254,550	49,178,984	81,383	1985	39,046,918	3,380,448	42,427,366	190,223
1981	40,995,167	4,870,819	45,865,986	81,647	1986	39,011,831	3,143,357	42,155,188	234,944

PORTLAND, OR, DISTRICT

39

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY
(CONSOLIDATED REPORT)--CONTINUED

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
TOTAL-----	28,064,560	1,481,613	9,170,564	2,276,557	11,570,694	138,013	151,208	2,776,175	499,736
0102 BARLEY AND RYE-----	911,356		207,410	4	703,942				
0103 CORN-----	2,850,504		2,788,304		62,200				
0105 RICE-----	4,515			311	4,161			25	20
0106 SORGHUM GRAINS-----	309,691		240,653		69,038				
0107 WHEAT-----	8,907,501		701,584		8,205,917				
0111 SOYBEANS-----	1,631				1,631				
0119 OILSEEDS, NEC-----	1,445		31		1,414				
0121 TOBACCO, LEAF-----	29				29				
0122 HAY AND FODDER-----	78								78
0129 FIELD CROPS, NEC-----	25,423	55	1,184	818	23,366				
0131 FRESH FRUITS-----	7,360			108	5,203			1,547	502
0132 BANANAS AND PLANTAINS-----	12			12					
0133 COFFEE-----	346	213		121				12	
0134 COCOA BEANS-----	5				5				
0141 FRESH AND FROZEN VEGETABLES-----	138,400	10	10,528	403	113,412				14,047
0151 LIVE ANIMALS-----	680				680				
0161 ANIMALS AND PRODUCTS, NEC-----	4,375	740	39	212	3,384				
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130			940	150				
0801 CRUDE RUBBER AND ALLIED GUMS-----	1,396	14		1,377					
0861 FOREST PRODUCTS, NEC-----	986	86		62	184			76	578
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160			342	3,818				
0912 SHELLFISH, EXCEPT PREPARED-----	208			24	68			14	102
0931 MARINE SHELLS, UNMANUFACTURED-----	38			38					
1011 IRON ORE AND CONCENTRATES-----	11,755				11,755				
1021 COPPER ORE AND CONCENTRATES-----	39,283		23,699		15,584				
1051 ALUMINUM ORES, CONCENTRATES-----	1,107,335	944,438		162,897					
1091 NONFERROUS ORES, CONCENT, NEC-----	5,360	5,316		44					
1311 CRUDE PETROLEUM-----	189,267							189,267	
1411 LIMESTONE-----	116,735			116,735					
1442 SAND, GRAVEL, CRUSHED ROCK-----	218,876			218,833	43				
1451 CLAY-----	127,775		10,954		116,821				
1491 SALT-----	573,471	283,615		289,856					7,000
1494 GYPSUM, CRUDE AND PLASTERS-----	40				40				
1499 NONMETALLIC MINERALS, NEC-----	40,623		5,007	337	30,122				5,157
1911 ORNANCE AND ACCESSORIES-----	129			128	1				
2011 MEAT, FRESH, CHILLED, FROZEN-----	7,433			57	7,267			1	108
2012 MEAT AND PRODUCTS, NEC-----	100	43			57				
2014 TALLOW, ANIMAL FATS AND OILS-----	8,006		1,102		6,904				
2015 ANIMAL BY-PRODUCTS, NEC-----	32,360		79		32,281				
2021 DAIRY PRODUCTS, NEC-----	435			324	49				62
2022 DRIED MILK AND CREAM-----	1,629				1,629				
2031 FISH AND SHELLFISH, PREPARED-----	3,753	43		1,071	1,337	1,302			
2034 VEGETABLES AND PREP, NEC-----	16,478		812	2,028	12,229			264	1,545
2039 PREP FRUIT AND VEG JUICE, NEC-----	24,348	634	75	4,039	7,667			11,657	276
2041 WHEAT FLOUR AND SEMOLINA-----	27,818				27,818				
2042 ANIMAL FEEDS-----	262,271		136,994	149	113,675				11,453
2049 GRAIN MILL PRODUCTS, NEC-----	3,200	19		277	2,904				
2061 SUGAR-----	777							777	
2062 MOLASSES-----	24,090			5,892				18,198	
2081 ALCOHOLIC BEVERAGES-----	13,791	620		5,266	367				7,538
2091 VEGETABLE OILS, MARG, SHORT-----	97,131	1,184		95,479	431				397
2094 GROCERIES-----	403							6	
2095 ICE-----	37								
2099 MISCELLANEOUS FOOD PRODUCTS-----	44,397	96	813	1,189	40,753			24	1,722
2111 TOBACCO MANUFACTURES-----	269		2		267				
2211 BASIC TEXTILE PRODUCTS-----	2,799	308	154	2,023	284				30
2311 APPAREL-----	1,080	28		1,034	18				
2411 LOGS-----	3,511,887		3,095,113	184	416,007				583
2413 FUEL WOOD, CHANCOAL, WASTES-----	1,714				189			6	1,539
2418 TIMBER, POSTS, POLES, PILING-----	4,213	29	2,175		1,302				707
2416 WOOD CHIPS, STAVES, MOLDINGS-----	531,189		167,654		363,735				
2421 LUMBER-----	527,306	15,809	116,532	2,046	431,861				89,509
2431 VENEER, PLYWOOD, WORKED WOOD-----	112,367	25,250	9,623	6,384	48,932		71,549		20,432
2491 WOOD MANUFACTURES, NEC-----	55,259	2,337	1,905	1,175	35,423		1,746		14,419
2511 FURNITURE AND FIXTURES-----	4,566	81	10	2,900	195			626	798
2611 PULP-----	90,898	4,118	22,131		64,649				
2621 STANDARD NEWSPRINT PAPER-----	202,330	79	176,408	3,678	21,144				1,021
2631 PAPER AND PAPERBOARD-----	309,138	17,816	72,719	6,815	203,618				8,170
2691 PULP AND PAPER PRODUCTS, NEC-----	22,703	1,966	50	340	176				20,171
2711 PRINTED MATTER-----	374		2	350	22				
2810 SODIUM HYDROXIDE-----	112,691						4,100	29,422	79,169
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,924				1,031			2,005	
2812 DYES, PIGMENT, TANNING MATS-----	458	13	5	2,870	11				447
2813 ALCOHOLS-----	57,313	19,424		28,208		2,752	6,929		
2816 RADIOACTIVE MATERIALS, WASTES-----	158			65				93	
2817 BENZENE AND TOLUENE-----	40,784	34,682		6,067	35				
2818 SULPHURIC ACID-----	433						433		
2819 BASIC CHEMICALS AND PROD, NEC-----	1,226,212	309	934,054	12,605	162,026			96,522	20,694
2821 PLASTIC MATERIALS-----	4,879	102	37	2,165	1,544				1,011
2822 SYNTHETIC RUBBER-----	58				58				
2823 SYNTHETIC (MAN-MADE) FIBERS-----	11				11				
2831 DRUGS-----	397		1	291	96				9
2841 SOAP-----	1,192		13	141	1,038				
2851 PAINTS-----	851	22	9	677	87			33	23
2861 GUM AND WOOD CHEMICALS-----	5,247				247			5,000	
2871 NITROGENOUS CHEM FERTILIZERS-----	162,926	6,181		7,036	110			137,880	11,711
2873 PHOSPHATIC CHEM FERTILIZERS-----	2,983						2,983		
2876 INSECTICIDES, DISINFECTANTS-----	127		4		23				100
2879 FERTILIZER AND MATERIALS, NEC-----	1,944			60					1,884

Waterborne Commerce of the United States, 1986

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY
(CONSOLIDATED REPORT)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN				DOMESTIC			
		IMPORTS	EXPORTS	THROUGH		RECEIPTS	SHIPMENTS	THROUGH	
				UPBOUND	DOWNBOUND			UPBOUND	DOWNBOUND
2891 MISCELLANEOUS CHEMICAL PROD	25,256	59	5	201	981	968		7,198	15,844
2911 GASOLINE	587,959	10,993		142,013		16,307	1,650	593,443	21,863
2912 JET FUEL	113,481			10,440				94,167	8,874
2914 DISTILLATE FUEL OIL	668,460			9,643		1,678		626,661	30,478
2915 RESIDUAL FUEL OIL	895,297			284		94,518		773,862	26,633
2916 LUBRICATING OILS AND GREASES	150,330		9	10	55	1,616		148,640	
2917 NAPHTHA, PETROLEUM SOLVENTS	6,369							6,369	
2918 ASPHALT, TAR, AND PITCHES	129,753	8,269		93,668				17,486	10,330
2920 COKE, PETROLEUM COKE	442,225		413,950		28,275				
2921 LIQUEFIED GASES	51				31				
2951 ASPHALT BUILDING MATERIALS	1,746				27				1,719
2991 PETROLEUM AND COAL PROD, NEC	287,823			2	40	16,800	58,457	212,515	9
3011 RUBBER AND MISC PLASTIC PROD	29,988	228	19	27,928	685			37	1,091
3111 LEATHER AND LEATHER PRODUCTS	3,876	15	3	3,230	628				
3211 GLASS AND GLASS PRODUCTS	2,064	19	56	1,891	98				
3241 BUILDING CEMENT	83,992	13,779		70,213					
3251 STRUCTURAL CLAY PRODUCTS	1,996		5	1,820	94				77
3271 LIME	19								19
3281 CUT STONE AND STONE PRODUCTS	920			920					
3291 MISC NONMETALLIC MINERAL PROD	12,055	195		1,135	611				10,114
3312 SLAG	2,495								2,495
3314 IRON AND STEEL PRIMARY FOR48	31,376			31,364	12				
3315 IRON, STEEL SHAPES, EXC SHEET	208,601	27,310	1	180,052	1				1,237
3316 IRON AND STEEL PLATES, SHEETS	8,139			6,491	319				1,329
3317 IRON AND STEEL PIPE AND TUBE	87,654	20,757		64,602	107				2,188
3318 FERROALLOYS	10,277	2,807		7,470					
3319 IRON AND STEEL PRODUCTS, NEC	12,909	233		12,519	157				
3321 NONFERROUS METALS, NEC	1,935	569		220	1				1,145
3322 COPPER ALLOYS, UNWORKED	401			293	268				
3323 LEAD AND ZINC, UNWORKED	3,057	339		2,718					
3324 ALUMINUM AND ALLOYS, UNWORKED	11,913	9,922	5	2,718	1,715				
3411 FABRICATED METAL PRODUCTS	97,899	8,474	299	77,944	2,053			22	9,103
3511 MACHINERY, EXCEPT ELECTRICAL	58,196		1,813	33,428	4,035		2,665	157	15,548
3611 ELECTRICAL MACH AND EQUIP	15,750	480		12,647	1,565				952
3711 MOTOR VEHICLES, PARTS, EQUIP	500,258	10,253	65	485,618	1,225		14	994	2,089
3721 AIRCRAFT AND PARTS	67	1		56	3				3
3731 SHIPS AND BOATS	605	286		259	32			2	18
3791 MISC TRANSPORTATION EQUIPMENT	1,193			835	61				157
3811 INSTR, TIME, PHOTO, OPT GOODS	1,320	3	11	1,185	129				
3911 MISC MANUFACTURED PRODUCTS	5,861	223	51	4,244	493			69	761
4011 IRON AND STEEL SCRAP	248,684		64	248,343				277	
4012 NONFERROUS METAL SCRAP	51,176		25,105	28,071					
4022 TEXTILE WASTE, SCRAP, SHEEP	109		10	99					
4024 PAPER WASTE AND SCRAP	62,708		585	62,123					
4029 WASTE AND SCRAP, NEC	450						450		
4112 COMMODITIES, NEC	24,443	123	3,143	1,276	5,852	364	232	660	12,593
4119 EMPTY CONTAINERS	163							163	
9999 DEPARTMENT OF DEFENSE AND SCI	28		9		19				

TON-MILES, OCEANGOING, 2,653,032,493.

INTERNAL

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
TOTAL	14,090,628	4,077,581	2,573,022	1,559,983	2,553,638	1,368,309	1,958,095
0102 BARLEY AND RYE	369,981	61,636	74,748		16,140		217,457
0103 CORN	6,172		3,511		2,661		
0107 WHEAT	3,446,818	1,018,617	594,656	2,997	520,069		1,310,479
0111 SOYBEANS	631		606				25
0122 HAY AND FODDER	21,724		17,747				3,977
0129 FIELD CROPS, NEC	76,498	868	8,079			19,527	48,024
0141 FRESH AND FROZEN VEGETABLES	14,155	2,379	4,738				7,038
0161 ANIMALS AND PRODUCTS, NEC	4,290		4,290				
0911 FRESH FISH, EXCEPT SHELLFISH	25,502	18,151				7,351	
0912 SHELLFISH, EXCEPT PREPARED	9,833	6,543				3,270	
1411 LIMESTONE	255,072		245,072				10,000
1442 SAND, GRAVEL, CRUSHED ROCK	908,732	89,612	101,876	600	9,650	577,586	129,408
1451 CLAY	5,925	5,925					
2015 ANIMAL BY-PRODUCTS, NEC	18,149		18,149				
2034 VEGETABLES AND PREP, NEC	10,945		20				10,925
2042 ANIMAL FEEDS	1,765		1,675	90			
2049 GRAIN MILL PRODUCTS, NEC	6,218	5,824	394				
2062 MOLASSES	18,485					14,122	4,363
2411 LOGS	29,763	24,983		500			4,280
2412 RAFTED LOGS	3,143,357	400,593	390,421	1,409,393	791,839	143,352	1,759
2413 FUEL WOOD, CHARCOAL, WASTES	97,534	37,446	838	550	58,700		
2414 TIMBER, POSTS, POLES, PILING	12,176		500	200	1,650		9,826
2416 WOOD CHIPS, STAVES, HOLDINGS	1,895,901	706,960	42,395	70,597	1,074,290		1,459
2421 LUMBER	29,039	286	4,818	152	1,832	21,044	857
2431 VENEER, PLYWOOD, WORKED WOOD	68						68
2491 WOOD MANUFACTURES, NEC	5,378	282	8,815	149	132		
2611 PULP	471,958	374,447	92,692	1,019	3,800		
2631 PAPER AND PAPERBOARD	32,708		81				32,618
2691 PULP AND PAPER PRODUCTS, NEC	985,732	39,988	818,575	29,801	3,761	442	13,165

COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY
(CONSOLIDATED REPORT)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

INTERNAL--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	THROUGH	
						UPBOUND	DOWNBOUND
2810 SODIUM HYDROXIDE-----	9,800	-----	9,800	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	135,038	131,998	3,840	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	86,115	-----	38,462	23,231	21,904	2,518	-----
2876 INSECTICIDES, DISINFECTANTS-----	334	334	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	150	-----	150	-----	-----	-----	-----
2911 GASOLINE-----	655,006	262,499	47,891	-----	26,997	219,865	97,754
2912 JET FUEL-----	46,009	-----	1,927	-----	-----	37,604	6,478
2914 DISTILLATE FUEL OIL-----	792,094	508,939	26,268	-----	6,944	235,885	14,036
2915 RESIDUAL FUEL OIL-----	449,427	348,284	1,591	6,545	-----	77,537	15,470
2916 LUBRICATING OILS AND GREASES-----	9,173	9,159	-----	-----	-----	14	-----
2991 PETROLEUM AND COAL PROD, NEC-----	7,792	7,792	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	4,000	-----	4,000	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	10,225	262	9,067	344	532	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,400	-----	-----	-----	3,400	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	3,258	2,800	333	-----	100	1	24
4011 IRON AND STEEL SCRAP-----	75	75	75	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	44,228	1,103	2,750	13,625	8,400	-----	18,350
4118 WATERWAY IMPROVEMENT MAT-----	1,027	-----	-----	190	837	-----	-----
4119 EMPTY CONTAINERS-----	12,148	3,831	152	-----	-----	8,132	33

TON-MILES, INTERNAL, 1,986,002,392.

TONS, ALL TRAFFIC, 42,155,188.

TON-MILES, ALL TRAFFIC, 4,339,035,085.

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW
VANCOUVER, WASH., AND PORTLAND, OREG.

SECTION INCLUDED: COLUMBIA RIVER FROM MOUTH TO THE MOUTH OF WILLAMETTE RIVER; WILLAMETTE RIVER FROM MOUTH TO BROADWAY BRIDGE AT PORTLAND, OREG., A DISTANCE OF 113 MILES; COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO INTERSTATE BRIDGE, VANCOUVER, WASH., A DISTANCE OF 5 MILES, CONTROLLING DEPTH: MOUTH OF COLUMBIA RIVER TO MOUTH OF WILLAMETTE AND UP THE WILLAMETTE TO BROADWAY BRIDGE IN PORTLAND, 38 FEET; IN THE REACH OF COLUMBIA RIVER FROM THE MOUTH OF WILLAMETTE RIVER TO THE LOWER TURNING BASIN AT VANCOUVER, WASH., 38 FEET. PROJECT DEPTH: 40 FEET IN MAIN CHANNEL FROM MOUTH OF COLUMBIA RIVER TO BROADWAY BRIDGE AT PORTLAND, OREG.; 40 FEET IN COLUMBIA RIVER FROM MOUTH OF WILLAMETTE RIVER TO RAILROAD BRIDGE, VANCOUVER, WASH.; 35 FEET FROM RAILROAD BRIDGE TO INTERSTATE BRIDGE, VANCOUVER, WASH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	33,426,301	6,063,007	39,489,308	36,810	1982-----	37,515,291	3,908,164	41,423,455	24,394
1978-----	39,962,712	5,091,549	45,054,261	48,878	1983-----	42,037,361	3,544,210	45,581,571	35,104
1979-----	42,124,171	5,264,395	47,388,566	89,075	1984-----	45,901,362	3,489,124	49,390,486	443,056
1980-----	43,251,649	5,694,866	48,946,515	49,531	1985-----	39,516,174	3,087,380	42,603,554	108,868
1981-----	41,779,923	6,136,724	48,916,647	41,246	1986-----	39,583,151	2,732,119	42,315,270	134,824

FREIGHT TRAFFIC, 1986

OCEANGOING

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	THROUGH UPBOUND	COASTWISE		
					RECEIPTS	SHIPMENTS	THROUGH UPBOUND DOWNBOUND
TOTAL-----	28,044,560	3,745,761	20,741,258	12,409	2,678,408	534,832	35,780 116,112
0102 BARLEY AND RYE-----	911,356	4	911,352	-----	-----	-----	-----
0103 CORN-----	2,850,504	-----	2,850,504	-----	-----	-----	-----
0105 RICE-----	4,515	311	4,161	-----	-----	-----	23 20
0106 BORRHUM GRAINS-----	309,691	-----	309,691	-----	-----	-----	-----
0107 WHEAT-----	8,907,501	-----	8,907,501	-----	-----	-----	-----
0111 SOYBEANS-----	1,631	-----	1,631	-----	-----	-----	-----
0119 OILSEEDS, NEC-----	1,445	-----	1,445	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	29	-----	29	-----	-----	-----	-----
0122 HAY AND FODDER-----	78	-----	-----	-----	78	-----	-----
0129 FIELD CROPS, NEC-----	25,423	873	24,550	-----	-----	-----	-----
0131 FRESH FRUITS-----	7,360	108	5,203	-----	-----	1,547	502
0132 BANANAS AND PLANTAINS-----	12	12	-----	-----	-----	-----	-----
0133 COFFEE-----	346	334	-----	-----	-----	12	-----
0134 COCOA BEANS-----	5	-----	5	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	138,400	413	123,940	-----	-----	-----	14,047
0151 LIVE ANIMALS-----	600	-----	600	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	4,375	952	3,423	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130	980	150	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,396	1,396	-----	-----	-----	-----	-----
0961 FOREST PRODUCTS, NEC-----	986	140	104	-----	-----	76	578
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160	342	3,818	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	208	24	68	-----	-----	14	102
0931 MARINE SHELLS, UNMANUFACTURED-----	38	38	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	11,755	-----	11,755	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	39,283	-----	39,283	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	1,107,335	1,107,335	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	5,360	5,360	-----	-----	-----	-----	-----

COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW
VANCOUVER, WASH., AND PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN			DOMESTIC COASTWISE			
		IMPORTS	EXPORTS	THROUGH UPBOUND	RECEIPTS	SHIPMENTS	THROUGH	
							UPBOUND	DOWNBOUND
1311 CRUDE PETROLEUM	189,267				189,267			
1411 LIMESTONE	116,735	110,391		6,344				
1442 SAND, GRAVEL, CRUSHED ROCK	218,876	212,768	43	6,065				
1451 CLAY	127,775		127,775					
1491 SALT	573,471	566,471				7,000		
1499 GYPSUM, CRUDE AND PLASTERS	40		40					
1499 NONMETALLIC MINERALS, NEC	40,623	337	35,129			4,580		577
1911 ORDNANCE AND ACCESSORIES	129	128	1					
2011 MEAT, FRESH, CHILLED, FROZEN	7,433	57	7,267				1	108
2012 MEAT AND PRODUCTS, NEC	100	43	57					
2014 TALLOW, ANIMAL FATS AND OILS	8,006		8,006					
2015 ANIMAL BY-PRODUCTS, NEC	32,360		32,360					
2021 DAIRY PRODUCTS, NEC	435	324	49					62
2022 DRIED MILK AND CREAM	1,629		1,629					
2031 FISH AND SHELLFISH, PREPARED	3,753	1,114	1,337		1,302			
2034 VEGETABLES AND PREP, NEC	16,476	2,026	12,641				264	1,545
2039 PREP FRUIT AND VEG JUICE, NEC	24,348	4,673	7,742				11,657	276
2041 WHEAT FLOUR AND SEMOLINA	27,818		27,818					
2042 ANIMAL FEEDS	262,271	149	250,669		1,204			10,249
2049 GRAIN MILL PRODUCTS, NEC	3,200	296	2,904					
2061 SUGAR	777						777	
2062 MOLASSES	24,090	5,892					18,198	
2081 ALCOHOLIC BEVERAGES	13,791	5,886	367		4,498			3,040
2091 VEGETABLE OILS, MARG, SHORT	97,131	96,663	431					37
2094 GROCERIES	403						6	397
2095 ICE	37	37						
2099 MISCELLANEOUS FOOD PRODUCTS	44,397	1,285	41,366			775	24	947
2111 TOBACCO MANUFACTURES	269		269					
2211 BASIC TEXTILE PRODUCTS	2,799	2,331	438			30		
2311 APPAREL	1,080	1,062	18					
2411 LOGS	3,511,887	184	3,511,120			583		
2413 FUEL WOOD, CHARCOAL, WASTES	1,714		169				6	1,539
2414 TIMBER, POSTS, POLES, PILING	4,213	29	3,477			707		
2416 WOOD CHIPS, STAVES, MOLDINGS	531,189		531,189					
2421 LUMBER	527,306	17,855	348,393			139,310		21,748
2431 VENEER, PLYWOOD, WORKED WOOD	112,367	31,634	58,555			15,928		6,250
2491 WOOD MANUFACTURES, NEC	55,259	3,512	37,328			12,400		2,019
2511 FURNITURE AND FIXTURES	4,566	2,941	205			450	626	344
2611 PULP	90,898	4,118	86,780					
2621 STANDARD NEWSPRINT PAPER	202,330	3,757	197,552			970		51
2631 PAPER AND PAPERBOARD	209,138	24,631	276,337			1,499		6,671
2691 PULP AND PAPER PRODUCTS, NEC	22,703	2,306	226			12,448		7,723
2711 PRINTED MATTER	374	350	24					
2810 SODIUM HYDROXIDE	112,691				29,422	83,269		
2811 CRUDE TAR, OIL, GAS PRODUCTS	5,924	2,883	1,036		2,005			
2812 DYES, PIGMENT, TANNING MATS	458		11			399		48
2813 ALCOHOLS	57,313	47,632			2,752	6,929		
2816 RADIOACTIVE MATERIALS, WASTES	158	65					93	
2817 BENZENE AND TOLUENE	40,784	40,749	35					
2818 SULPHURIC ACID	433		1,096,080			433		
2819 BASIC CHEMICALS AND PROD, NEC	1,226,212	12,914	1,581		96,480	18,082	42	2,614
2821 PLASTIC MATERIALS	4,879	2,287						1,011
2822 SYNTHETIC RUBBER	58		58					
2823 SYNTHETIC (MAN-MADE) FIBERS	11		11					
2831 DRUGS	397	291	97					9
2841 SOAP	1,192	141	1,051					
2851 PAINTS	851	699	96				33	23
2861 GUM AND WOOD CHEMICALS	5,247		247		5,000			
2871 NITROGENOUS CHEM FERTILIZERS	162,926	13,217	118		137,680	5,412		6,299
2873 PHOSPHATIC CHEM FERTILIZERS	2,983					2,983		
2876 INSECTICIDES, DISINFECTANTS	127		27					100
2879 FERTILIZER AND MATERIALS, NEC	1,944	60				1,738		146
2891 MISCELLANEOUS CHEMICAL PROD	25,256	260	986		8,166	15,844		
2911 GASOLINE	587,989	153,006			411,450	23,533		
2912 JET FUEL	113,481	10,840			94,167	8,874		
2914 DISTILLATE FUEL OIL	668,460	9,643			628,339	30,478		
2915 RESIDUAL FUEL OIL	695,297	284			668,380	26,633		
2916 LUBRICATING OILS AND GREASES	150,330	10	64		150,256			
2917 NAPHTHA, PETROLEUM SOLVENTS	6,369				6,369			
2918 ASPHALT, TAR, AND PITCHES	129,753	101,937			17,486	9,245		1,085
2920 COKE, PETROLEUM COKE	442,225		442,225					
2921 LIQUEFIED GASES	31		31					
2951 ASPHALT BUILDING MATERIALS	1,746		27			1,369		350
2991 PETROLEUM AND COAL PROD, NEC	287,823	2	40		229,315	58,457		9
3011 RUBBER AND MISC PLASTIC PROD	29,988	28,156	704			975	37	116
3111 LEATHER AND LEATHER PRODUCTS	3,876	3,245	631					
3211 GLASS AND GLASS PRODUCTS	2,064	1,910	154					
3241 BUILDING CEMENT	83,992	83,992						
3251 STRUCTURAL CLAY PRODUCTS	1,996	1,820	99					77
3271 LIME	19							19
3281 CUT STONE AND STONE PRODUCTS	920							
3291 MISC NONMETALLIC MINERAL PROD	12,055	1,330	611			5,786		4,328
3312 SLAG	2,495					93		2,402
3314 IRON AND STEEL PRIMARY FORMS	31,376	31,364	12					
3315 IRON, STEEL SHAPES, EXC SHEET	208,601	207,362	2			1,128		109
3316 IRON AND STEEL PLATES, SHEETS	8,139	6,491	319					1,329
3317 IRON AND STEEL PIPE AND TUBE	87,654	85,359	107			205		1,983
3318 FERROALLOYS	10,277							
3319 IRON AND STEEL PRODUCTS, NEC	12,909	12,752	157					
3321 NONFERROUS METALS, NEC	1,935	789				1,145		
3322 COPPER ALLOYS, UNWORKED	601	333	268					

43

FREIGHT TRAFFIC, 1984--CONTINUED

OCEANGOING--CONTINUED

(SHORT TONS)

TON-MILES, OCEANGOING, 2,653,032,493.

(SHORT TONS)

TON-MILES, INTERNAL, 289,469,018.

TONS, ALL TRAFFIC, 42,315,270.
TON-MILES, ALL TRAFFIC, 2,942,501,511.

Waterborne Commerce of the United States, 1986

PORT OF ASTORIA, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT WITH FRONTAGE ON THE COLUMBIA RIVER ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR PORTION OF PORT WITH FRONTAGE ON YOUNGS BAY ARE ALSO INCLUDED IN STATISTICS FOR YOUNGS BAY AND YOUNGS RIVER, OREG.) CONTROLLING DEPTH: 38 FEET IN COLUMBIA RIVER AND 9 FEET IN YOUNGS BAY. PROJECT DEPTH: 40 FEET IN COLUMBIA RIVER AND 10 FEET IN YOUNGS BAY.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,540,034	1,088,929	2,628,963	10	1982-----	1,272,911	634,601	1,907,512	178
1978-----	1,379,259	951,403	2,330,662	-----	1983-----	1,122,757	538,195	1,660,952	-----
1979-----	1,507,280	924,857	2,432,137	752	1984-----	1,625,278	506,587	2,131,865	5,369
1980-----	1,565,869	871,316	2,437,185	370	1985-----	1,178,786	492,046	1,670,832	3,961
1981-----	1,434,549	598,963	2,033,512	468	1986-----	936,455	200,870	1,137,325	5,298

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	1,137,325	76,545	398,952	3,352	5,678	351,847	312,801	5,950
0103 CORN-----	121,488		121,488					
0119 OILSEEDS, NEC-----	31		31					
0129 FIELD CROPS, NEC-----	138		138					
0133 COFFEE-----	79	79						
0141 FRESH AND FROZEN VEGETABLES-----	115		115					
0161 ANIMALS AND PRODUCTS, NEC-----	39		39					
0861 FOREST PRODUCTS, NEC-----	5	5						
0911 FRESH FISH, EXCEPT SHELLFISH-----	11,737					11,737		
0912 SHELLFISH, EXCEPT PREPARED-----	6,386					6,386		
1051 ALUMINUM ORES, CONCENTRATES-----	41,887	41,887						
1411 LIMESTONE-----	232,772						232,772	
1442 SAND, GRAVEL, CRUSHED ROCK-----	37,857					37,857		
2031 FISH AND SHELLFISH, PREPARED-----	1,302			1,302				
2039 PREP FRUIT AND VEG JUICE, NEC-----	2	2						
2049 GRAIN MILL PRODUCTS, NEC-----	19	19						
2081 ALCOHOLIC BEVERAGES-----	333	333						
2091 VEGETABLE OILS, MARG, SHORT-----	19	19						
2099 MISCELLANEOUS FOOD PRODUCTS-----	28	28						
2211 BASIC TEXTILE PRODUCTS-----	14	14						
2311 APPAREL-----	8	8						
2411 LOGS-----	269,466		269,466					
2412 RAFTED LOGS-----	200,870					144,802	56,068	
2421 LUMBER-----	8,026	2,994	3,356			1,696		
2431 VENEER, PLYWOOD, HUNKED WOOD-----	24	24						
2511 FURNITURE AND FIXTURES-----	30	30						
2611 PULP-----	10,063	4,118	464			1,800	3,701	
2621 STANDARD NEWSPRINT PAPER-----	1,324		1,324					
2631 PAPER AND PAPERBOARD-----	18,029	16,072	1,957					
2691 PULP AND PAPER PRODUCTS, NEC-----	20,427	1,866				223	16,336	
2871 NITROGENOUS CHEM FERTILIZERS-----	6,980					6,980		
2873 PHOSPHATIC CHEM FERTILIZERS-----	2,983				2,983			
2914 DISTILLATE FUEL OIL-----	16,112			1,678		16,434		
2915 RESIDUAL FUEL OIL-----	110,830					103,058	1,822	5,950
2916 LUBRICATING OILS AND GREASES-----	683		9			674		
3011 RUBBER AND MISC PLASTIC PROD-----	1	1						
3111 LEATHER AND LEATHER PRODUCTS-----	7	7						
3315 IRON, STEEL SHAPES, EXC SHEET-----	448	448						
3324 ALUMINUM AND ALLOYS, UNWORKED-----	9,109	9,109						
3411 FABRICATED METAL PRODUCTS-----	26	26						
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,672	7			2,665			
3611 ELECTRICAL MACH AND EQUIP-----	50	50						
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,386	1,386						
3731 SHIPS AND BOATS-----	8			8				
3911 MISC MANUFACTURED PRODUCTS-----	13	13						
4024 PAPER WASTE AND SCRAP-----	585		585					
4029 WASTE AND SCRAP, NEC-----	300					200	100	
4112 COMMODITIES, NEC-----	594			364	230			

PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS,
LONGVIEW, VANCOUVER AND KALAMA

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)
PORTS INCLUDED: BRADDOCK, WAUNA, BEAVER POINT, RAINIER AND PRESCOTT, OREG. AND KNAPTON, WASH. CONTROLLING DEPTH: 38 FEET. PROJECT DEPTH: 40 FEET AT LOW WATER IN MAIN CHANNEL.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,199,627	271,579	1,471,206	1982-----	887,524	278,278	1,165,802
1978-----	1,065,682	223,410	1,289,092	1983-----	930,629	224,167	1,154,796
1979-----	1,332,426	220,773	1,553,199	1984-----	807,025	183,279	990,304
1980-----	823,095	423,052	1,246,147	1985-----	821,638	125,288	946,926
1981-----	961,164	223,314	1,184,478	1986-----	824,396	96,954	921,350

PORTLAND, OR, DISTRICT

45

PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS,
LONGVIEW, VANCOUVER AND KALAMA--CONTINUED

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE	INTERNAL	
		RECEIPTS	RECEIPTS	SHIPMENTS
TOTAL-----	921,350	13,193	531,699	376,468
0129 FIELD CROPS, NEC-----	100	-----	100	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	43,245	-----	43,245	-----
2412 RAFTED LOGS-----	96,954	-----	76,073	20,881
2413 FUEL WOOD, CHARCOAL, WASTES-----	65,036	-----	65,036	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	287,654	-----	286,654	1,000
2611 PULP-----	30,815	-----	-----	30,815
2691 PULP AND PAPER PRODUCTS, NEC-----	352,256	-----	32,009	320,247
2911 GASOLINE-----	4,994	4,994	-----	-----
2914 DISTILLATE FUEL OIL-----	761	-----	761	-----
2915 RESIDUAL FUEL OIL-----	35,865	8,149	27,666	-----
3291 MISC NONMETALLIC MINERAL PROD-----	70	-----	45	25
3411 FABRICATED METAL PRODUCTS-----	3,400	-----	-----	3,400
4029 WASTE AND SCRAP, NEC-----	200	-----	100	100

PORT OF LONGVIEW, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)
CONTROLLING DEPTH: 37 FEET IN CHANNEL AND 38 FEET IN TURNING BASIN. PROJECT DEPTH: 46 FOOT CHANNEL IN COLUMBIA RIVER AND 6,000 FOOT
TURNING BASIN AT LOW WATER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	6,064,771	1,504,615	8,169,386	-----	1982-----	7,525,139	1,234,991	8,760,130	-----
1978-----	7,423,913	948,782	8,372,695	-----	1983-----	8,407,786	1,030,185	9,437,971	-----
1979-----	6,959,661	1,540,409	8,500,070	-----	1984-----	8,366,676	1,035,182	9,401,858	1,230
1980-----	6,543,000	1,413,229	9,956,229	-----	1985-----	7,548,410	900,745	8,449,155	335
1981-----	8,515,266	1,140,750	9,656,016	-----	1986-----	9,173,659	1,139,193	10,312,822	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	INTERNAL				
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	10,312,822	781,412	6,833,873	91,243	121,568	1,549,299	786,128	149,299
0102 BARLEY AND RYE-----	124,633	-----	116,617	-----	-----	10,016	-----	-----
0103 CORN-----	1,403,010	-----	1,403,010	-----	-----	-----	-----	-----
0106 SORGHUM GRAINS-----	173,801	-----	173,801	-----	-----	-----	-----	-----
0107 WHEAT-----	412,996	-----	386,474	-----	-----	26,522	-----	-----
0129 FIELD CROPS, NEC-----	260	-----	260	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	1,882	10	1,872	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	36	36	-----	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	85	-----	-----	-----	-----	85	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	484,257	484,257	-----	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	650	-----	-----	-----	-----	-----	650	-----
1491 SALT-----	283,615	283,615	-----	-----	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	43	43	-----	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	20	-----	20	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	127	61	66	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	114,860	-----	114,860	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	268	268	-----	-----	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	45	45	-----	-----	-----	-----	-----	-----
2095 ICE-----	37	37	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	465	68	397	-----	-----	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	2	-----	2	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	10	7	3	-----	-----	-----	-----	-----
2311 APPAREL-----	17	17	-----	-----	-----	-----	-----	-----
2411 LOGS-----	2,825,073	-----	2,821,692	-----	-----	3,381	-----	-----
2412 RAFTED LOGS-----	1,139,163	-----	-----	-----	-----	217,907	774,082	147,174
2413 FUEL WOOD, CHARCOAL, WASTES-----	25,448	-----	-----	-----	-----	25,448	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	2,282	-----	432	-----	-----	1,650	-----	200
2416 WOOD CHIPS, STAVES, MOLDINGS-----	1,309,746	-----	139,454	-----	58,849	1,169,292	-----	1,000
2421 LUMBER-----	137,840	3	77,292	-----	58,849	-----	1,696	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	11,194	-----	9,448	-----	1,746	-----	-----	-----
2691 WOOD MANUFACTURES, NEC-----	210	15	195	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	6	6	2	-----	-----	-----	-----	-----
2611 PULP-----	23,975	-----	21,575	-----	-----	2,400	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	174,538	-----	174,538	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	52,486	-----	52,486	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	65	63	2	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	10,300	-----	-----	-----	2,500	-----	7,800	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	13	13	-----	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	936,089	40	936,049	-----	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	131	94	37	-----	-----	-----	-----	-----
2851 PAINTS-----	21	21	-----	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	56	56	-----	-----	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	152,932	-----	-----	78,443	-----	78,489	-----	-----

PORT OF LONGVIEW, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	INTERNAL SHIPMENTS	
2916 LUBRICATING OILS AND GREASES-----	1,292	-----	-----	-----	1,292	-----
2918 ASPHALT, TAR, AND BITUMENS-----	8,269	8,269	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	400,720	-----	400,720	-----	-----	-----
2991 PETROLEUM AND COAL PROD., NEC-----	83,049	-----	-----	16,800	58,457	7,742
3011 RUBBER AND MISC PLASTIC PROD-----	271	216	15	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1	1	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	4	4	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	256	256	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	118	118	-----	-----	-----	-----
3318 FERROALLOYS-----	2,205	2,205	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	20	20	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	339	339	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,732	332	-----	-----	3,400	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	319	125	194	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	266	261	5	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	302	270	18	-----	14	-----
3721 AIRCRAFT AND PARTS-----	1	1	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	11	11	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	9	3	6	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	204	198	6	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	11	-----	11	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	4,536	-----	4,536	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	10	-----	10	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	4,450	-----	-----	-----	1,625	1,900
4112 COMMODITIES, NEC-----	1,766	18	1,746	-----	-----	925

PORT OF KALAMA, WASH.

SECTION INCLUDED: (INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.)
 CONTROLLING DEPTH: 36 FEET. PROJECT DEPTH: 40 FEET AT LOW WATER.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	671,322	167,652	858,974	1982-----	1,382,389	106,403	1,488,792
1978-----	854,474	167,749	1,013,223	1983-----	1,599,623	90,934	1,690,757
1979-----	977,278	164,573	1,141,851	1984-----	5,370,724	59,686	5,430,412
1980-----	1,311,370	154,322	1,465,692	1985-----	4,401,401	50,303	4,451,704
1981-----	1,521,654	136,792	1,658,446	1986-----	2,007,042	36,821	2,043,863

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE SHIPMENTS	INTERNAL RECEIPTS	
TOTAL-----	2,043,863	45,261	1,657,126	12,700	301,549	27,187
0102 BARLEY AND RYE-----	157,621	-----	92,793	-----	64,828	-----
0103 CORN-----	1,266,384	-----	1,263,723	-----	2,661	-----
0106 SORGHUM GRAINS-----	66,852	-----	66,852	-----	-----	-----
0107 WHEAT-----	420,770	-----	200,628	-----	216,218	4,124
0129 FIELD CROPS, NEC-----	46	-----	46	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	1	-----	-----	-----	1	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	1,102	-----	1,102	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,120	1,120	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1	-----	1	-----	-----	-----
2411 LOGS-----	3,955	-----	3,955	-----	-----	-----
2412 RAFTED LOGS-----	36,821	-----	-----	-----	14,208	22,613
2416 WOOD CHIPS, STAVES, MOLDINGS-----	28,000	-----	28,000	-----	-----	-----
2421 LUMBER-----	12,700	-----	-----	12,700	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	16	16	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	8	-----	8	-----	-----	-----
2813 ALCOHOLS-----	9,950	9,950	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	34,021	34,021	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	984	-----	-----	-----	984	-----
2915 RESIDUAL FUEL OIL-----	1,921	-----	-----	-----	1,921	-----
2916 LUBRICATING OILS AND GREASES-----	518	-----	-----	-----	518	-----
3011 RUBBER AND MISC PLASTIC PROD-----	1	-----	1	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	144	144	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	1	-----	1	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	1	-----	1	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	10	10	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	15	-----	15	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	900	-----	-----	-----	450	450

PORTLAND, OR, DISTRICT

47

MULTNOMAH CHANNEL, OREG.

SECTION INCLUDED: A SIDE CHANNEL FROM THE WILLAMETTE RIVER NEAR PORTLAND, OREG., TO THE COLUMBIA RIVER NEAR ST. HELENS, OREG., A DISTANCE OF ABOUT 22 MILES. CONTROLLING DEPTH: 18 FEET IN A 300-FOOT CHANNEL AT NORTH END; 14.5 TO 21 FEET IN A 250-FOOT CHANNEL AT SOUTH END; 8 TO 50 FEET IN REMAINDER OF CHANNEL. PROJECT DEPTH: 25 FEET DEEP AND 5,000 FEET LONG AT THE COLUMBIA RIVER END; 25 FEET DEEP AND 9,500 FEET LONG AT THE WILLAMETTE RIVER END.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,397,675	759,040	2,156,715	1982-----	1,079,191	521,972	1,601,163
1978-----	1,656,217	584,880	2,241,097	1983-----	1,422,424	328,676	1,751,100
1979-----	1,548,658	756,553	2,305,211	1984-----	744,756	375,793	1,120,549
1980-----	1,120,079	770,197	1,890,276	1985-----	1,173,828	373,846	1,547,674
1981-----	1,251,192	435,287	1,686,479	1986-----	1,036,915	353,003	1,389,918

* PASSENGERS--26,338.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL		
		INBOUND	OUTBOUND	UPBOUND
TOTAL-----	1,389,918	258,130	1,127,850	3,938
1442 SAND, GRAVEL, CRUSHED ROCK-----	610,538		610,538	
2412 RAFTED LOGS-----	353,003	241,465	107,600	3,938
2416 WOOD CHIPS, STAVES, MOLDINGS-----	56,522		56,522	
2611 PULP-----	352,200		352,200	
2915 RESIDUAL FUEL OIL-----	16,065	16,065		
2916 LUBRICATING OILS AND GREASES-----	990		990	
4029 WASTE AND SCRAP, NEC-----	600	600		
TOTAL TON-MILES, 6,396,604.				

OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.

SECTION INCLUDED: FROM DEEP WATER IN THE COLUMBIA RIVER TO A POINT ABOVE THE PORTLAND UNION STOCK YARDS, A DISTANCE OF NEARLY 4 MILES. CONTROLLING DEPTH: 11 FEET. PROJECT DEPTH: 20 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	158,611	131,768	290,379	1982-----	667,232	1,966	669,198
1978-----	312,064	202,311	514,375	1983-----	861,292	1,435	862,727
1979-----	329,216	60,913	390,129	1984-----	680,179	2,720	682,899
1980-----	306,665	20,805	327,470	1985-----	730,519	3,084	733,603
1981-----	692,650	17,726	710,376	1986-----	631,713		631,713

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
TOTAL-----	631,713	35,780	116,112	291,464	168,357
0103 CORN-----	748			748	
0105 RICE-----	43	23	20		
0111 SOYBEANS-----	631			631	
0122 HAY AND FODDER-----	21,305			21,305	
0129 FIELD CROPS, NEC-----	67,716			48,281	19,435
0131 FRESH FRUITS-----	2,049	1,547	502		
0133 COFFEE-----	12	12			
0141 FRESH AND FROZEN VEGETABLES-----	24,090		14,047	9,429	114
0161 ANIMALS AND PRODUCTS, NEC-----	4,290			4,290	
0861 FOREST PRODUCTS, NEC-----	654	76	578		
0912 SHELLFISH, EXCEPT PREPARED-----	116	14	102		
1411 LIMESTONE-----	10,000				10,000
1442 SAND, GRAVEL, CRUSHED ROCK-----	230,219			100,511	129,708
1499 NONMETALLIC MINERALS, NEC-----	577		577		
2011 MEAT, FRESH, CHILLED, FROZEN-----	109	1	108		
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149			14,149	
2021 DAIRY PRODUCTS, NEC-----	62		62		
2034 VEGETABLES AND PREP, NEC-----	4,797	264	1,545	2,988	
2039 PREP FRUIT AND VEG JUICE, NEC-----	11,933	11,657	276		
2042 ANIMAL FEEDS-----	11,834		10,249	1,585	
2049 GRAIN MILL PRODUCTS, NEC-----	394			394	
2061 SUGAR-----	777	777			
2062 MOLASSES-----	34,542	18,198			16,344
2081 ALCOHOLIC BEVERAGES-----	3,040		3,040		

Waterborne Commerce of the United States, 1986

OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		RECEIPTS	SHIPMENTS	INBOUND	OUTBOUND
2091 VEGETABLE OILS, MARG, SHORT	37		37		
2094 GROCERIES	403	6	397		
2099 MISCELLANEOUS FOOD PRODUCTS	971	24	947		
2413 FUEL WOOD, CHARCOAL, WASTES	1,545	6	1,539		
2416 WOOD CHIPS, STAVES, MOLDINGS	1,659			1,659	
2421 LUMBER	22,605		21,748	857	
2431 VENEER, PLYWOOD, WORKED WOOD	6,338		6,250	88	
2491 WOOD MANUFACTURES, NEC	2,019		2,019		
2511 FURNITURE AND FIXTURES	970	626	344		
2611 PULP	3,600			3,600	
2621 STANDARD NEWSPRINT PAPER	51		51		
2631 PAPER AND PAPERBOARD	39,379		6,671	32,699	9
2691 PULP AND PAPER PRODUCTS, NEC	20,888		7,723	13,165	
2812 DYES, PIGMENT, TANNING MATS	48		48		
2816 RADIOACTIVE MATERIALS, WASTES	93	93			
2819 BASIC CHEMICALS AND PROD, NEC	2,656	42	2,614		
2821 PLASTIC MATERIALS	1,011		1,011		
2831 DRUGS	9		9		
2851 PAINTS	58	33	23		
2871 NITROGENOUS CHEM FERTILIZERS	6,299		6,299		
2876 INSECTICIDES, DISINFECTANTS	454		100		354
2879 FERTILIZER AND MATERIALS, NEC	146		146		
2915 RESIDUAL FUEL OIL	34,324			34,324	
2916 LUBRICATING OILS AND GREASES	14			14	
2918 ASPHALT, TAR, AND BITUMENS	1,085		1,085		
2951 ASPHALT BUILDING MATERIALS	350		350		
2991 PETROLEUM AND COAL PROD, NEC	9		9		
3011 RUBBER AND MISC PLASTIC PROD	153	37	116		
3251 STRUCTURAL CLAY PRODUCTS	77		77		
3271 LIME	19		19		
3291 MISC NONMETALLIC MINERAL PROD	4,328		4,328		
3312 SLAG	2,402		2,402		
3315 IRON, STEEL SHAPES, EXC SHEET	109		109		
3316 IRON AND STEEL PLATES, SHEETS	1,329		1,329		
3317 IRON AND STEEL PIPE AND TUBE	1,983		1,983		
3411 FABRICATED METAL PRODUCTS	6,014	22	5,992		
3511 MACHINERY, EXCEPT ELECTRICAL	835	157	678	57	1
3611 ELECTRICAL MACH AND EQUIP	631		631		
3711 MOTOR VEHICLES, PARTS, EQUIP	2,668	994	1,674		
3721 AIRCRAFT AND PARTS	3		3		
3751 SHIPS AND BOATS	12	2	10		
3791 MISC TRANSPORTATION EQUIPMENT	1		1		
3911 MISC MANUFACTURED PRODUCTS	830	69	761		
4011 IRON AND STEEL SCRAP	352	277		75	
4029 WASTE AND SCRAP, NEC	850				850
4112 COMMODITIES, NEC	6,191	660	5,531		
4119 EMPTY CONTAINERS	11,840	163		115	11,562

PORT OF VANCOUVER, WASH.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF THE PORT BELOW INTERSTATE BRIDGE ARE ALSO INCLUDED IN THE STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE INTERSTATE BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA RIVER FROM VANCOUVER, WASH., TO THE DALLES, OREG.) CONTROLLING DEPTH: 26 FEET AT LOW WATER FOR THAT SECTION OF THE PORT BELOW RAILROAD BRIDGE AND 15 FEET FOR THAT SECTION OF THE PORT ABOVE INTERSTATE BRIDGE. PROJECT DEPTH: 40 FEET AT LOW WATER IN THE LOWER TURNING BASIN AND 35 FEET AT LOW WATER IN THE UPPER TURNING BASIN.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977	2,568,201	264,472	2,832,673	1982	2,668,608	65,967	2,734,575
1978	2,941,679	273,103	3,214,782	1983	2,960,929	47,642	3,008,571
1979	3,041,547	184,985	3,226,532	1984	3,389,375	66,599	3,455,974
1980	2,779,893	131,559	2,911,452	1985	5,279,140	50,675	5,329,815
1981	2,640,455	115,153	2,755,608	1986	2,802,061	50,394	2,852,455

* PASSENGERS--6,482.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL	2,852,455	576,395	280,613	18,349	8,579	1,800,214	168,305
0102 BARLEY AND RYE	2,932					2,932	
0103 CORN	83		83				
0107 WHEAT	1,417,005		114,482			1,299,143	3,380
0129 FIELD CROPS, NEC	1,543	55	720			768	
0133 COFFEE	134	134					
0141 FRESH AND FROZEN VEGETABLES	10,806		8,541			2,265	
0161 ANIMALS AND PRODUCTS, NEC	704	704					

PORTLAND, OR, DISTRICT

49

PORT OF VANCOUVER, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
0841 CRUDE RUBBER AND ALLIED GUMS-----	19	19					
0861 FOREST PRODUCTS, NEC-----	81	81					
0911 FRESH FISH, EXCEPT SHELLFISH-----	794					794	
0912 SHELLFISH, EXCEPT PREPARED-----	162					162	
1021 COPPER ORE AND CONCENTRATES-----	23,699		23,699				
1051 ALUMINUM ORES, CONCENTRATES-----	418,294	418,294					
1091 NONFERROUS ORES, CONCENT, NEC-----	5,316	5,316					
1451 CLAY-----	10,954		10,954				
1499 NONMETALLIC MINERALS, NEC-----	5,007		5,007				
2015 ANIMAL BY-PRODUCTS, NEC-----	79		79				
2031 FISH AND SHELLFISH, PREPARED-----	43	43					
2034 VEGETABLES AND PREP, NEC-----	392		392				
2039 PREP FRUIT AND VEG JUICE, NEC-----	580	571	9				
2042 ANIMAL FEEDS-----	22,134		22,134				
2081 ALCOHOLIC BEVERAGES-----	19	19					
2099 MISCELLANEOUS FOOD PRODUCTS-----	215		215				
2211 BASIC TEXTILE PRODUCTS-----	438	287	151				
2311 APPAREL-----	3	3					
2411 LOGS-----	942					942	
2412 RAFTED LOGS-----	50,394					20,590	29,804
2414 TIMBER, POSTS, PULES, PILING-----	2,272	24	1,743				500
2416 WOOD CHIPS, STAVES, MOLDINGS-----	3,339					839	2,500
2421 LUMBER-----	49,254	12,812	35,904			68	470
2431 VENEER, PLYWOOD, WORKED WOOD-----	25,185	25,210	175				
2491 WOOD MANUFACTURES, NEC-----	4,563	2,322	1,710			66	465
2511 FURNITURE AND FIXTURES-----	5	5					
2611 PULP-----	353,292		92			353,200	
2621 STANDARD NEWSPRINT PAPER-----	625	79	546				
2631 PAPER AND PAPERBOARD-----	20,018	1,744	18,274				
2691 PULP AND PAPER PRODUCTS, NEC-----	85	37	48				
2711 PRINTED MATTER-----	2		2				
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5		5				
2813 ALCOHOLS-----	19,155	9,474		2,752	6,929		
2817 BENZENE AND TOLUENE-----	661	661					
2819 BASIC CHEMICALS AND PROD, NEC-----	1,499	269	5				1,225
2821 PLASTIC MATERIALS-----	8	8					
2831 DRUGS-----	1		1				
2841 SOAP-----	13		13				
2851 PAINTS-----	10	1	9				
2871 NITROGENOUS CHEM FERTILIZERS-----	40,779	6,181				25,144	13,454
2876 INSECTICIDES, DISINFECTANTS-----	4		4				
2891 MISCELLANEOUS CHEMICAL PROD-----	976	3	5	968			
2911 GASOLINE-----	119,046	10,993		13,013	1,650	20,594	72,796
2914 DISTILLATE FUEL OIL-----	46,462					13,230	33,232
2915 RESIDUAL FUEL OIL-----	50,033					57,669	364
2916 LUBRICATING OILS AND GREASES-----	3,358			1,616		1,742	
2920 COKE, PETROLEUM COKE-----	13,230		13,230				
3011 RUBBER AND MISC PLASTIC PROD-----	24	21	3				
3111 LEATHER AND LEATHER PRODUCTS-----	11	8	3				
3211 GLASS AND GLASS PRODUCTS-----	74	18	56				
3241 BUILDING CEMENT-----	17,779	13,779					4,000
3251 STRUCTURAL CLAY PRODUCTS-----	5		5				
3291 MISC NONMETALLIC MINERAL PROD-----	4,722	191				66	4,465
3315 IRON, STEEL SHAPES, EXC SHEET-----	26,463	26,462	1				
3317 IRON AND STEEL PIPE AND TUBE-----	20,639	20,639					
3318 FERROALLOYS-----	602	602					
3319 IRON AND STEEL PRODUCTS, NEC-----	233	233					
3321 NONFERROUS METALS, NEC-----	549	549					
3322 COPPER ALLOYS, UNWORKED-----	40	40					
3324 ALUMINUM AND ALLOYS, UNWORKED-----	818	813	5				
3411 FABRICATED METAL PRODUCTS-----	8,418	8,120	298				
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,036	418	1,618				
3611 ELECTRICAL MACH AND EQUIP-----	240	159	81				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	6,629	6,597	32				
3721 AIRCRAFT AND PARTS-----	1		1				
3731 SHIPS AND BOATS-----	275	275					
3811 INSTR, TIME, PHOTO, OPT GOODS-----	5		5				
3911 MISC MANUFACTURED PRODUCTS-----	57	12	45				
4011 IRON AND STEEL SCRAP-----	53		53				
4012 NONFERROUS METAL SCRAP-----	18,569		18,569				
4029 WASTE AND SCRAP, NEC-----	1,650						1,650
4112 COMMODITIES, NEC-----	1,702	105	1,597				
9999 DEPARTMENT OF DEFENSE AND SCI-----	9		9				

Waterborne Commerce of the United States, 1986

COLUMBIA RIVER BETWEEN VANCOUVER, WASH.,
AND THE DALLES, OREG.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG., A DISTANCE OF ABOUT 85 MILES. CONTROLLING DEPTH: 15 FEET BETWEEN VANCOUVER AND THE DALLES. PROJECT DEPTH: 27 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	6,760,767	1,414,085	8,174,852	1982-----	7,750,152	1,016,249	8,766,401
1978-----	7,876,232	1,112,512	8,988,744	1983-----	8,056,549	951,000	9,007,549
1979-----	8,194,993	1,111,874	9,306,867	1984-----	9,400,599	730,165	10,130,764
1980-----	9,144,764	1,599,325	10,744,089	1985-----	7,483,841	862,710	8,346,551
1981-----	9,075,436	1,233,697	10,309,135	1986-----	8,176,082	958,286	9,134,368

* PASSENGERS--181,467.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL					
		INBOUND	OUTBOUND	UPBOUND	DOWNBOUND	UPBOUND	DOWNBOUND
TOTAL-----	9,139,368	962,132	1,485,093	492,165	394,338	1,549,693	4,750,997
0102 BARLEY AND RYE-----	36,981		5,353				36,981
0103 CORN-----	6,172						6,172
0107 WHEAT-----	3,427,370		73,988				3,353,382
0111 SOYBEANS-----	631						631
0122 HAY AND FODDER-----	21,724						21,724
0129 FIELD CROPS, NEC-----	74,622					19,359	55,263
0141 FRESH AND FROZEN VEGETABLES-----	14,155					114	14,041
0161 ANIMALS AND PRODUCTS, NEC-----	4,290						4,290
0911 FRESH FISH, EXCEPT SHELLFISH-----	5,029	5,029					
0912 SHELLFISH, EXCEPT PREPARED-----	15	15					
1411 LIMESTONE-----	12,300		12,300				
1442 SAND, GRAVEL, CRUSHED ROCK-----	109,676	4,800	103,376		1,500		
1451 CLAY-----	5,925	5,925					
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149						14,149
2034 VEGETABLES AND PREP, NEC-----	10,945						10,945
2042 ANIMAL FEEDS-----	1,675		90				1,585
2049 GRAIN MILL PRODUCTS, NEC-----	6,218	5,824					394
2062 MOLASSES-----	14,122					14,122	
2411 LOGS-----	29,763	13,291		500			15,972
2412 RAFTED LOGS-----	956,286	131,144	173,395	484,950	168,797		
2413 FUEL WOOD, CHARCOAL, WASTES-----	72,533		54,426		5,662		12,445
2414 TIMBER, POSTS, POLES, PILING-----	11,976		2,150				9,826
2416 WOOD CHIPS, STAVES, MOLDINGS-----	1,531,864	179,820	506,484		214,242	3,847	627,471
2421 LUMBER-----	6,115	304	4,802	152			657
2431 VENEER, PLYWOOD, WORKED WOOD-----	88						88
2491 WOOD MANUFACTURES, NEC-----	5,246	298	4,799	149			
2611 PULP-----	84,861	21,866	1,000				61,995
2631 PAPER AND PAPERBOARD-----	32,708					9	32,699
2691 PULP AND PAPER PRODUCTS, NEC-----	565,812	39,095	513,552				13,165
2819 BASIC CHEMICALS AND PROD, NEC-----	135,838		1,225			134,613	
2871 NITROGENOUS CHEM FERTILIZERS-----	38,718	10,912	13,454			5,521	8,831
2876 INSECTICIDES, DISINFECTANTS-----	334					334	
2891 MISCELLANEOUS CHEMICAL PROD-----	150		150				
2911 GASOLINE-----	597,722					499,968	97,754
2912 JET FUEL-----	46,009					37,604	8,405
2914 DISTILLATE FUEL OIL-----	751,955	5,027				732,890	14,038
2915 RESIDUAL FUEL OIL-----	117,339	32,606				84,733	
2916 LUBRICATING OILS AND GREASES-----	4,896					4,896	
3241 BUILDING CEMENT-----	4,000		4,000				
3291 MISC NONMETALLIC MINERAL PROD-----	9,846	323	9,199	224	100		
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,458	1,000	300		100	1	57
4011 IRON AND STEEL SCRAP-----	75						75
4029 WASTE AND SCRAP, NEC-----	14,953	4,853	1,000	6,000	3,100		
4118 WATERWAY IMPROVEMENT MAT-----	1,027			190	837		
4119 EMPTY CONTAINERS-----	11,797					11,682	115
TOTAL TON-MILES,-----	552,034,974						

COLUMBIA RIVER ABOVE THE DALLES DAM, WASH. AND OREG. TO
MCNARY LOCK AND DAM, OREG. AND WASH.

SECTION INCLUDED: COLUMBIA RIVER BETWEEN THE DALLES DAM AND MCNARY LOCK AND DAM, A DISTANCE OF ABOUT 91 MILES. CONTROLLING DEPTH: WITHIN THE DALLES AND JOHN DAY POOLS, 14 FEET. PROJECT DEPTH: 14 FEET AT ADOPTED LOW WATER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	4,865,268	1982-----	7,388,699
1978-----	6,118,003	1983-----	6,939,894
1979-----	6,442,713	1984-----	7,519,804
1980-----	7,725,206	1985-----	5,865,134
1981-----	8,187,034	1986-----	6,412,941

* PASSENGERS--4,180.

51

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL			
		INBOUND	OUTBOUND	THROUGH	
		UPBOUND	DOWNBOUND		
TOTAL-----	6,412,941	1,952	666,536	1,599,809	4,144,644
0102 BARLEY AND RYE-----	364,629		35,190		329,439
0103 CORN-----	6,172		5,424		748
0107 WHEAT-----	3,353,362		306,911		3,046,471
0111 SOYBEANS-----	651				651
0122 HAY AND FODDER-----	21,724		13,212		8,512
0129 FIELD CROPS, NEC-----	74,622			14,359	55,263
0141 FRESH AND FROZEN VEGETABLES-----	14,155		3,280	114	10,761
0161 ANIMALS AND PRODUCTS, NEC-----	4,290				4,290
2015 ANIMAL BY-PRODUCTS, NEC-----	14,149		52		14,097
2034 VEGETABLES AND PREP, NEC-----	10,945				10,945
2042 ANIMAL FEEDS-----	1,765	90	90		1,585
2049 GRAIN MILL PRODUCTS, NEC-----	394		394		
2062 MOLASSES-----	14,122			14,122	
2411 LOGS-----	29,263				29,263
2413 FUEL WOOD, CHARCOAL, WASTES-----	13,833			1,388	12,445
2414 TIMBER, POSTS, POLES, PILING-----	9,826				9,826
2416 WOOD CHIPS, STAVES, HOLDINGS-----	707,648		301,899	39,604	366,195
2421 LUMBER-----	857				857
2431 VENEER, PLYWOOD, WORKED WOOD-----	88				88
2611 PULP-----	61,995				61,995
2631 PAPER AND PAPERBOARD-----	32,704			9	32,699
2691 PULP AND PAPER PRODUCTS, NEC-----	13,165				13,165
2819 BASIC CHEMICALS AND PROD, NEC-----	135,838			135,838	
2871 NITROGENOUS CHEM FERTILIZERS-----	32,915			18,975	13,940
2876 INSECTICIDES, DISINFECTANTS-----	334			334	
2911 GASOLINE-----	597,722			499,566	97,754
2912 JET FUEL-----	46,009			37,604	8,405
2914 DISTILLATE FUEL OIL-----	746,924			732,890	14,038
2915 RESIDUAL FUEL OIL-----	84,733			84,733	
2916 LUBRICATING OILS AND GREASES-----	4,896			4,896	
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,054			1	1,057
4011 IRON AND STEEL SCRAP-----	75				75
4119 EMPTY CONTAINERS-----	12,021	1,862	84	9,974	101
TOTAL TON-MILES, 620,102,446.					

PORT OF PORTLAND, OREG.

SECTION INCLUDED: (STATISTICS FOR THAT SECTION OF PORTLAND HARBOR BELOW ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG., AND STATISTICS FOR SECTION ABOVE ROSS ISLAND BRIDGE ARE ALSO INCLUDED IN STATISTICS FOR WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.) CONTROLLING DEPTH: 28 FEET FROM MOUTH TO BROADWAY BRIDGE; 20 FEET AT LOW WATER ABOVE ROSS ISLAND BRIDGE TO LAKE OSWEGO; 4 FEET TO OREGON CITY. PROJECT DEPTH: 40 FEET AT LOW WATER BELOW BROADWAY BRIDGE; 30 FEET FROM BROADWAY BRIDGE TO FOOT OF ROSS ISLAND, MAINTAINED BY PORT OF PORTLAND; 8 FEET AT LOW WATER ABOVE FOOT OF ROSS ISLAND.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	20,577,249	623,013	21,400,262	156	1982-----	24,641,713	487,565	25,129,278	474
1978-----	25,905,140	668,239	26,573,343	-----	1983-----	25,398,242	350,782	25,749,024	-----
1979-----	26,327,706	817,905	27,145,611	10,617	1984-----	26,653,192	649,472	27,302,664	42,566
1980-----	26,633,335	900,724	27,314,059	16,178	1985-----	21,844,863	745,776	22,590,639	81,385
1981-----	27,233,073	391,456	27,624,529	5,790	1986-----	24,817,091	712,661	25,529,752	102,093

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	25,589,684	2,264,148	11,570,694	2,748,405	413,089	5,431,960	2,097,568	1,063,820
0102 BARLEY AND RYE-----	996,151	4	703,942	-----	-----	292,205	-----	-----
0103 CORN-----	65,691	-----	62,200	-----	-----	3,491	-----	-----
0105 RICE-----	4,472	311	4,161	-----	-----	-----	-----	-----
0106 SORGHUM GRAINS-----	69,038	-----	69,038	-----	-----	-----	-----	-----
0107 WHEAT-----	10,128,321	-----	8,205,917	-----	-----	1,905,135	11,944	5,325
0111 SOYBEANS-----	2,214	-----	1,631	-----	-----	583	-----	-----
0119 OILSEEDS, NEC-----	1,414	-----	1,414	-----	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	29	-----	29	-----	-----	-----	-----	-----
0122 HAY AND FODDER-----	18,725	-----	-----	-----	78	10,647	-----	-----
0129 FIELD CROPS, NEC-----	71,363	818	23,366	-----	-----	39,987	7,044	168
0131 FRESH FRUITS-----	5,545	108	5,203	175	59	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	12	12	-----	-----	59	-----	-----	-----
0133 COFFEE-----	122	121	-----	1	-----	-----	-----	-----
0134 COCOA BEANS-----	5	-----	5	-----	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	126,949	403	113,412	-----	3,391	9,707	56	-----
0151 LIVE ANIMALS-----	680	-----	680	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	7,707	212	3,384	-----	-----	4,111	-----	-----

PORT OF PORTLAND, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
0191 MISCELLANEOUS FARM PRODUCTS-----	1,130	980	150	-----	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,377	1,377	-----	-----	-----	-----	-----	-----
0861 FOREST PRODUCTS, NEC-----	845	62	184	21	578	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	4,160	342	3,818	-----	-----	-----	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	148	24	68	13	43	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	38	38	-----	-----	-----	-----	-----	-----
1011 IRON ORE AND CONCENTRATES-----	11,755	-----	11,755	-----	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	15,584	-----	15,584	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	162,897	162,897	-----	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	44	44	-----	-----	-----	-----	-----	-----
1311 CRUDE PETROLEUM-----	189,267	-----	189,267	-----	-----	-----	-----	-----
1411 LIMESTONE-----	365,463	110,391	-----	-----	-----	235,072	10,000	10,000
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,942,010	212,768	43	-----	-----	1,120,629	300	608,270
1451 CLAY-----	131,790	-----	116,821	-----	-----	-----	14,977	-----
1491 SALT-----	289,856	282,856	-----	-----	7,000	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	40	40	-----	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	35,039	337	30,122	-----	4,580	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	129	128	-----	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	7,375	57	7,267	-----	51	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	57	57	-----	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	6,904	-----	6,904	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	45,955	-----	32,281	-----	-----	13,674	-----	-----
2021 DAIRY PRODUCTS, NEC-----	373	324	49	-----	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	1,629	-----	1,629	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	2,406	1,071	1,337	-----	-----	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	24,782	2,028	12,229	82	347	10,096	-----	-----
2039 PHEP FRUIT AND VEG JUICE, NEC-----	15,331	4,039	7,667	3,561	64	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	27,618	-----	27,618	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	118,422	149	113,675	-----	3,413	1,585	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	25,617	277	2,904	-----	-----	285	22,351	-----
2062 MOLASSES-----	28,191	5,892	-----	3,240	-----	-----	14,122	4,929
2081 ALCOHOLIC BEVERAGES-----	10,678	5,266	367	-----	5,045	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	95,910	95,479	431	-----	-----	-----	-----	-----
2094 GROCERIES-----	144	-----	-----	6	138	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	42,946	1,189	40,753	1	1,003	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	267	-----	267	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	2,337	2,023	284	-----	30	-----	-----	-----
2311 APPAREL-----	1,052	1,034	18	-----	-----	-----	-----	-----
2411 LOGS-----	421,054	184	416,007	-----	583	4,280	-----	-----
2412 RAFTED LOGS-----	772,683	-----	-----	-----	-----	534,244	34,942	203,497
2413 FUEL WOOD, CHARCOAL, WASTES-----	381	-----	169	6	206	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	12,335	-----	1,302	-----	707	10,326	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	379,759	-----	363,735	-----	-----	2,533	13,491	-----
2421 LUMBER-----	334,837	2,046	231,861	-----	74,456	26,188	286	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	71,947	6,384	48,932	-----	16,631	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	54,535	1,175	35,423	-----	12,840	4,815	282	-----
2511 FURNITURE AND FIXTURES-----	3,902	2,900	195	297	510	-----	-----	-----
2611 PULP-----	218,266	-----	64,649	-----	-----	59,195	93,341	1,081
2621 STANDARD NEWSRINT PAPER-----	25,792	3,678	21,144	-----	970	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	216,538	6,815	203,618	-----	3,023	3,082	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	998,844	340	176	-----	13,840	946,817	37,616	55
2711 PRINTED MATTER-----	372	350	22	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	125,636	-----	29,422	79,169	9,800	-----	-----	7,245
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	5,906	2,870	1,031	2,005	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	410	-----	11	-----	399	-----	-----	-----
2813 ALCOHOLS-----	28,208	28,208	-----	-----	-----	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	83	65	-----	18	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	6,102	6,067	35	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	422,055	12,605	162,026	96,484	18,962	-----	131,998	-----
2821 PLASTIC MATERIALS-----	3,819	2,185	1,544	-----	90	-----	-----	-----
2822 SYNTHETIC RUBBER-----	58	-----	58	-----	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	11	-----	11	-----	-----	-----	-----	-----
2831 DRUGS-----	391	291	96	-----	4	-----	-----	-----
2841 SOAP-----	1,179	141	1,038	-----	-----	-----	-----	-----
2851 PAINTS-----	797	677	87	33	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	5,247	-----	247	5,000	-----	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	154,487	7,036	118	137,880	6,935	-----	2,518	-----
2876 INSECTICIDES, DISINFECTANTS-----	23	-----	23	-----	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	1,944	60	-----	-----	1,884	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	24,374	201	981	7,198	15,848	150	-----	-----
2911 GASOLINE-----	1,210,651	142,013	-----	393,443	21,883	130,349	480,381	42,562
2912 JET FUEL-----	162,200	10,440	-----	94,167	8,874	8,405	37,604	2,710
2914 DISTILLATE FUEL OIL-----	1,462,982	9,643	-----	626,661	30,478	20,685	743,650	31,865
2915 RESIDUAL FUEL OIL-----	1,359,972	284	-----	773,862	26,633	1,591	412,088	145,114
2916 LUBRICATING OILS AND GREASES-----	157,523	10	55	148,640	-----	-----	8,169	649
2917 NAPHTHA, PETROLEUM SOLVENTS-----	6,369	-----	6,369	-----	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	120,439	93,668	-----	17,486	9,285	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	28,275	-----	28,275	-----	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	31	-----	31	-----	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	1,658	-----	27	-----	1,631	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	220,349	2	40	212,515	-----	-----	7,792	-----
3011 RUBBER AND MISC PLASTIC PROD-----	29,647	27,928	685	12	1,022	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	3,858	3,230	628	-----	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	1,989	1,891	98	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	74,213	70,213	-----	-----	-----	4,000	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	1,914	1,820	94	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	920	920	-----	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	18,350	1,133	611	-----	7,253	9,867	282	-----
3312 SLAB-----	93	-----	-----	-----	93	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	31,374	31,344	12	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	181,290	180,932	1	-----	1,237	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	7,229	6,491	319	-----	-----	419	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	65,468	64,602	187	-----	759	-----	-----	-----
3318 FERROALLOYS-----	7,470	7,470	-----	-----	-----	-----	-----	-----

53

FREIGHT TRAFFIC, 1986--CONTINUED

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE		
				RECEIPTS	SHIPMENTS	INTERNAL
				RECEIPTS	SHIPMENTS	
3319 IRON AND STEEL PRODUCTS, NEC-----	12,670	12,519	157	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	1,366	220	1	-----	1,145	-----
3322 COPPER ALLOYS, UNWORKED-----	561	293	268	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	2,718	2,718	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	1,986	271	1,715	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	84,415	77,944	2,053	-----	4,416	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	54,772	33,428	4,035	1	15,208	300
3611 ELECTRICAL MACH AND EQUIP-----	14,625	12,647	1,585	-----	393	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	487,989	485,618	1,225	308	838	-----
3721 AIRCRAFT AND PARTS-----	63	56	6	-----	1	-----
3731 SHIPS AND BOATS-----	304	259	32	2	11	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1,152	935	61	-----	156	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1,314	1,145	129	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	4,852	4,264	485	10	185	-----
4011 IRON AND STEEL SCRAP-----	248,508	-----	248,343	90	-----	75
4012 NONFERROUS METAL SCRAP-----	28,071	-----	28,071	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SHEEP-----	99	-----	99	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	62,123	-----	62,123	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	6,876	-----	-----	-----	4,800	1,728
4112 COMMODITIES, NEC-----	15,499	1,276	5,852	57	8,314	-----
4119 EMPTY CONTAINERS-----	8,501	-----	-----	64	-----	31
9999 DEPARTMENT OF DEFENSE AND SCI-----	19	-----	19	-----	-----	8,406

SECTION INCLUDED: WILLAMETTE RIVER FROM PORTLAND TO HARRISBURG, OREG., A DISTANCE OF 159 MILES, AND YAMHILL RIVER FROM MOUTH TO MILE 4.0. CONTROLLING DEPTHS: 9 FEET FROM PORTLAND TO OREGON CITY; 3 FEET TO CORVALLIS; 4 FEET ON YAMHILL RIVER FROM MOUTH TO MILE 4.0. PROJECT DEPTH: WILLAMETTE RIVER, 8 FEET FROM PORTLAND TO OREGON CITY; 6 FEET FROM OREGON CITY TO MOUTH OF SANTIAM RIVER; 5 FEET FROM MOUTH OF SANTIAM RIVER TO ALBANY; 2.5 FEET TO 3.5 FEET FROM ALBANY TO CORVALLIS; NO DEPTHS PRESCRIBED FROM CORVALLIS TO HARRISBURG; YAMHILL RIVER, 4 FEET FROM MOUTH TO MILE 4.0.

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977	4,879,152	307,192	5,186,344	1982	2,444,937	398,176	2,843,113
1978	5,400,834	339,691	5,740,525	1983	2,310,753	147,085	2,457,838
1979	4,475,295	524,437	4,999,732	1984	3,263,156	327,295	3,590,451
1980	5,082,568	404,274	5,486,842	1985	3,070,929	455,275	3,526,177
1981	3,577,405	298,997	3,876,402	1986	3,008,102	645,820	3,743,949

COMMODITY	TOTAL	FOREIGN	DOMESTIC			
		IMPORTS	INBOUND	OUTBOUND	UPBOUND	DOWNBOUND
TOTAL-----	3,743,949	12,409	872,638	1,340,950	185,720	1,332,232
1411 LIMESTONE-----	26,344	6,344	20,000	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,320,165	6,065	650,459	574,934	170,612	918,095
1451 CLAY-----	51,752	-----	9,052	-----	4,100	38,600
2049 GRAIN MILL PRODUCTS, NEC-----	16,527	-----	16,527	-----	-----	-----
2412 RAFTED LOGS-----	645,820	-----	59,211	331,114	4,258	251,237
2413 FUEL WOOD, CHARCOAL, WASTES-----	25,001	-----	-----	25,001	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	285,475	-----	-----	285,475	-----	-----
2611 PULP-----	108,591	-----	108,591	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	128,285	-----	4,452	123,831	-----	-----
2914 DISTILLATE FUEL OIL-----	1,893	-----	-----	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	5,521	-----	4,926	595	-----	-----
4029 WASTE AND SCRAP, NEC-----	132,575	-----	1,525	-----	6,750	124,300
TOTAL TON-MILES, 17,451,171.						

Waterborne Commerce of the United States, 1986

COOS BAY, OREG.

SECTION INCLUDED: FROM SEA TO MILLINGTON, A DISTANCE OF 17 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF COOS BAY.) CONTROLLING DEPTH: 39 FEET IN ENTRANCE CHANNEL; 30 FEET IN INNER CHANNEL TO MILE 15; 20 FEET IN ISTHMUS SLOUGH TO MILLINGTON. PROJECT DEPTH: 45/35 FEET ON BAR AND 35 FEET FROM ENTRANCE TO MILE 15; TURNING BASINS OF SAME DEPTH OPPOSITE COALBANK SLOUGH AND AT THE CITY OF NORTH BEND; ANCHORAGE BASINS 27 FEET AT MILE 3.5 AND NEAR MILE 7; A CHANNEL 22 FEET DEEP FROM SMITH'S MILL (MILE 15) TO MILLINGTON; MOORING BASIN FOR SMALL BOATS AT CHARLESTON, WITH A CONNECTING CHANNEL 10 FEET DEEP TO DEEP WATER IN COOS BAY.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	6,326,186	1,273,235	7,599,421	1982-----	4,515,440	2,265,946	6,781,386
1978-----	5,872,721	1,191,570	7,064,291	1983-----	3,997,003	778,903	4,775,906
1979-----	5,905,174	1,145,699	7,050,873	1984-----	4,283,768	1,626,061	5,909,829
1980-----	5,517,082	1,286,884	6,803,966	1985-----	5,370,322	2,264,323	7,634,645
1981-----	4,177,782	1,602,201	5,779,983	1986-----	4,573,582	1,481,021	6,054,603

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE RECEIPTS	INTERNAL SHIPMENTS	
TOTAL-----	6,054,603	7,116	4,129,217	289,968	135,403	1,156,226
0129 FIELD CROPS, NEC-----	93	87	6			
0131 FRESH FRUITS-----	182		182			
0141 FRESH AND FROZEN VEGETABLES-----	3		3			
0861 FOREST PRODUCTS, NEC-----	66	66				
0911 FRESH FISH, EXCEPT SHELLFISH-----	8,195					8,195
0912 SHELLFISH, EXCEPT PREPARED-----	3,683					3,683
1442 SAND, GRAVEL, CRUSHED ROCK-----	49,737			49,737		
2039 PREP FRUIT AND VEG JUICE, NEC-----	64	64				
2081 ALCOHOLIC BEVERAGES-----	44	44				
2099 MISCELLANEOUS FOOD PRODUCTS-----	95		95			
2111 TOBACCO MANUFACTURES-----	2		2			
2211 BASIC TEXTILE PRODUCTS-----	179	179				
2311 APPAREL-----	5	5				
2411 LOGS-----	1,207,678		1,207,678			
2412 RAFTED LOGS-----	1,481,021					1,481,021
2416 WOOD CHIPS, STAVES, MOLDINGS-----	2,575,159		2,575,159			
2421 LUMBER-----	451,303	166	278,656	54,544	117,937	
2431 VENEER, PLYWOOD, WORKED WOOD-----	49,437	215	41,247	26	7,949	
2491 WOOD MANUFACTURES, NEC-----	286	126	160			
2511 FURNITURE AND FIXTURES-----	22	22				
2611 PULP-----	15,750		15,750			
2631 PAPER AND PAPERBOARD-----	6,862		6,862			
2691 PULP AND PAPER PRODUCTS, NEC-----	11	9	2			
2719 BASIC CHEMICALS AND PROD, NEC-----	60	60				
2851 PAINTS-----	62	62				
2891 MISCELLANEOUS CHEMICAL PROD-----	6		6			
2911 GASOLINE-----	44,264			44,264		
2912 JET FUEL-----	2,175			2,175		
2914 DISTILLATE FUEL OIL-----	58,297			58,297		
2915 RESIDUAL FUEL OIL-----	6,400			6,400		
2991 PETROLEUM AND COAL PROD, NEC-----	81,505			73,511	7,994	
3011 RUBBER AND MISC PLASTIC PROD-----	14	13	1			
3111 LEATHER AND LEATHER PRODUCTS-----	6	6				
3241 BUILDING CEMENT-----	39	39				
3251 STRUCTURAL CLAY PRODUCTS-----	24	24				
3281 CUT STONE AND STONE PRODUCTS-----	37	37				
3291 MISC NONMETALLIC MINERAL PROD-----	75	44	31			
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,743	3,743				
3317 IRON AND STEEL PIPE AND TUBE-----	4,972	1,972		1,000	1,500	
3319 IRON AND STEEL PRODUCTS, NEC-----	20	20				
3324 ALUMINUM AND ALLOYS, UNWORKED-----	34	34				
3411 FABRICATED METAL PRODUCTS-----	48	35	13			
3511 MACHINERY, EXCEPT ELECTRICAL-----	18	11	7			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	27	12	1	14		
3731 SHIPS AND BOATS-----	15	15				
3811 INSTR, TIME, PHOTO, OPT GOODS-----	1		1			
3911 MISC MANUFACTURED PRODUCTS-----	3	3				
4112 COMMODITIES, NEC-----	3,381	3	3,358		23	
TOTAL TON-MILES, 75,991,792,						

COOS AND MILLICOMA RIVERS, OREG.

SECTION INCLUDED: MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER (NORTH FORK), MILE 13.8 AND TO MILE 14 ON SOUTH FORK. CONTROLLING DEPTH: 5 FEET FROM MOUTH OF COOS RIVER TO ALLEGANY ON MILLICOMA RIVER AND DELLWOOD ON SOUTH FORK; THENCE 3 FEET TO MILE 14.7 ON SOUTH FORK.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	1,829,933	1982-----	1,956,600
1978-----	2,312,221	1983-----	637,628
1979-----	1,413,070	1984-----	1,407,450
1980-----	1,530,746	1985-----	1,845,645
1981-----	1,457,784	1986-----	1,144,348

PORTLAND, OR, DISTRICT

55

COOS AND WILLICOMA RIVERS, OREG.--CONTINUED

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	INTERNAL	
	OUTBOUND	INBOUND
2412 RAFTED LOGS-----	1,144,548	
TOTAL TON-MILES, 8,681,572.		

UMPUA RIVER, OREG.

SECTION INCLUDED: ENTRANCE TO REEDSPORT, A DISTANCE OF ABOUT 12 MILES. (SAME SECTION AND STATISTICS APPLY TO PORT OF UMPQUA.)
CONTROLLING DEPTH: 23 FEET ON THE BAR, 24 FEET FROM ENTRANCE TO MILE 3, 19 FEET MILE 3 TO 8, 18 FEET MILE 8 TO 12 AND 22 FEET IN
TURNING BASIN. PROJECT DEPTH: ENTRANCE 26 FEET AND 22 FEET FROM MOUTH TO REEDSPORT WITH A TURNING BASIN AT REEDSPORT; A SIDE CHANNEL
AND MOORING AND TURNING BASIN 12 FEET DEEP AT WINCHESTER BAY; A CHANNEL 22 FEET DEEP WITH TURNING BASIN AT GARDINER.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	648,721	68,639	717,560	1982-----	665,567	-----	665,567
1978-----	586,341	19,269	605,610	1983-----	133,122	14,400	147,522
1979-----	820,595	219	820,814	1984-----	193,232	88,650	281,882
1980-----	969,984	40,682	1,010,666	1985-----	223,639	19,725	243,364
1981-----	340,900	35,456	376,356	1986-----	241,450	27,900	269,350

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL		
		RECEIPTS	SHIPMENTS	INBOUND	UPBOUND	DOWNBOUND
TOTAL-----	269,350	11,500	58,514	27,254	101,571	70,511
0911 FRESH FISH, EXCEPT SHELLFISH-----	534	-----	-----	534	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	20	-----	-----	20	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	201,719	-----	49,737	-----	101,571	50,411
2412 RAFTED LOGS-----	27,900	-----	-----	26,700	-----	1,200
2421 LUMBER-----	8,777	-----	8,777	-----	-----	-----
2915 RESIDUAL FUEL OIL-----	11,500	11,500	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	18,900	-----	-----	-----	-----	18,900
TOTAL TON-MILES, 2,771,207.						

YACUINA BAY AND HARBOR, OREG.

SECTION INCLUDED: ENTRANCE AND BAY TO TOWN OF YACUINA, OREG., A DISTANCE OF ABOUT 4.5 MILES. CONTROLLING DEPTH: 37 FEET AT ENTRANCE,
THENCE 28 FEET TO AND IN THE TURNING BASIN. PROJECT DEPTH: 40/30 FEET THROUGH ENTRANCE CHANNEL, 30 FEET FROM END OF ENTRANCE CHANNEL
TO MCLEAN POINT, 30 FEET IN TURNING BASIN, AND 18 FEET FROM TURNING BASIN TO TOWN OF YACUINA.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	165,178	-----	165,178	1982-----	404,336	-----	404,336
1978-----	263,113	-----	263,113	1983-----	802,154	-----	802,154
1979-----	158,792	-----	158,792	1984-----	2,269,377	-----	2,269,377
1980-----	126,513	-----	126,513	1985-----	211,142	-----	211,142
1981-----	69,007	-----	69,007	1986-----	301,340	-----	301,340

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN EXPORTS	DOMESTIC		
			COASTWISE		INTERNAL
			SHIPMENTS	THROUGH DOWNBOUND	INBOUND
TOTAL-----	301,340	185,312	90,109	13,233	12,686
0911 FRESH FISH, EXCEPT SHELLFISH-----	8,756	-----	-----	-----	8,756
0912 SHELLFISH, EXCEPT PREPARED-----	3,930	-----	-----	-----	3,930
2411 LOGS-----	181,663	181,663	-----	-----	-----
2421 LUMBER-----	100,107	3,649	90,109	6,349	-----
2991 PETROLEUM AND COAL PROD, NEC-----	6,884	-----	-----	6,884	-----
TOTAL TON-MILES, 637,305.					

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
ALSEA BAY AND RIVER, OREG.	NO COMMERCE REPORTED			
CHETCO RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	1,552		
	0912 SHELLFISH, EXCEPT PREPARED	706		
	2421 LUMBER	25,451		
	TOTAL	27,689	27,689	
CHINOOK CHANNEL, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH	2,241		
	0912 SHELLFISH, EXCEPT PREPARED	1,092		
	4029 WASTE AND SCRAP, NEC	18,000		
	TOTAL	21,333	21,333	
CLATSkanie RIVER, OREG.	2412 RAFTED LOGS	2,044	8,176	
COLUMBIA RIVER AT JAKENS BAY, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH	4,657		
	0912 SHELLFISH, EXCEPT PREPARED	2,178		
	4029 WASTE AND SCRAP, NEC	18,000		
	TOTAL	24,835	52,175	
COLUMBIA SLOUGH, OREG.	NO COMMERCE REPORTED			
COQUILLE RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	115		
	0912 SHELLFISH, EXCEPT PREPARED	15		
	TOTAL	130		
COALITZ RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH	920	2,100	
DEEP RIVER, WASH.	2412 RAFTED LOGS	153,731		
	4029 WASTE AND SCRAP, NEC	300		
	TOTAL	154,031	534,174	
DEPOE BAY, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	289	289	
ELOKOMIN SLOUGH, WASH.	NO COMMERCE REPORTED			
GRAYS RIVER, WASH.	NO COMMERCE REPORTED			
LAKE RIVER, WASH.	0911 FRESH FISH, EXCEPT SHELLFISH	33	66	
LEWIS RIVER, WASH.	1402 SAND, GRAVEL, CRUSHED ROCK	3,710		
	2412 RAFTED LOGS	155,084		
	TOTAL	158,794	1,086,071	
PORT OF ST. HELENS, OREG.	1402 SAND, GRAVEL, CRUSHED ROCK	3,710		
	2416 WOOD CHIPS, STAVES, HOLDINGS	2,500		
	2915 RESIDUAL FUEL OIL	595		
	TOTAL	6,805		
PORT ODFJRD, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	648		
	0912 SHELLFISH, EXCEPT PREPARED	66		
	TOTAL	714		
ROGUE RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	47	67,620	
SIUSLAN RIVER, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	399		
	0912 SHELLFISH, EXCEPT PREPARED	1		
	2412 RAFTED LOGS	64,105		
	TOTAL	64,505	281,240	
SKAMOKAWA (STEAMBOAT) SLOUGH, WASH.	NO COMMERCE REPORTED			
SKAMOKAWA CREEK, WASH.	NO COMMERCE REPORTED			
SKIPANON CHANNEL, OREG.	2412 RAFTED LOGS	28,620		
	2416 WOOD CHIPS, STAVES, HOLDINGS	66,000		
	2421 LUMBER	21,094		
	2691 PULP AND PAPER PRODUCTS, NEC	442		
	TOTAL	116,156	116,156	
SMITH RIVER, OREG.	2412 RAFTED LOGS	26,700		
	2421 LUMBER	8,121		
	TOTAL	34,821	542,121	
TILLAMOOK BAY AND BAR, OREG.	0911 FRESH FISH, EXCEPT SHELLFISH	569		
	0912 SHELLFISH, EXCEPT PREPARED	2,222		
	TOTAL	2,791	22,328	
WESTPORT SLOUGH, OREG.				23,474
YAGUINA RIVER, OREG.	2421 LUMBER	6,349		
	2991 PETROLEUM AND COAL PROD, NEC	6,884		
	TOTAL	13,233	132,330	
YOUNGS BAY AND YOUNGS RIVER, OREG.	2412 RAFTED LOGS	177,114	610,247	

SEATTLE, WA, DISTRICT

57

GRAYS HARBOR AND CEMHALIS RIVER, WASH.

SECTION INCLUDED: GRAYS HARBOR BAR CHANNEL AND CEMHALIS RIVER TO COSMOPOLIS AND EXTENDING TO SIMPSON AVENUE BRIDGE ON THE HOQUIAM RIVER AND THE SCHAFER BROS. WHARF AT MONTESANO ON THE CEMHALIS RIVER. CONTROLLING DEPTH: BAR CHANNEL, 37.1 FEET; 28.7 FEET FROM DEEP WATER IN LOWER HARBOR TO UPPER CROSS-OVER; 28.6 FEET FROM UPPER CROSS-OVER TO COW POINT; 25.3 FEET FROM COW POINT TO COSMOPOLIS; TURNING BASIN JUST DOWNSTREAM OF U.P.R.R. BRIDGE, 23.9 FEET; TURNING BASIN NEAR COSMOPOLIS, 28.6 FEET, 5.5 FEET FROM COSMOPOLIS TO MONTESANO; BAY CITY CHANNEL, 9.1 FEET; WESTHAVEN CHANNEL, 13.9 FEET NORTH ENTRANCE, 13.0 FEET SOUTH ENTRANCE. PROJECT DEPTH: 30 FEET EXTENDING THROUGH THE BAR CHANNEL TO COSMOPOLIS; BAY 16 FEET TO MONTESANO; BAY CITY CHANNEL, 14 FEET; WESTHAVEN CHANNEL, 16 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC
(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,558,704	87,488	2,646,192	1982-----	3,267,640	4,995	3,272,635
1978-----	3,081,953	-----	3,081,953	1983-----	3,552,799	11,903	3,564,702
1979-----	5,005,916	124,627	5,130,743	1984-----	3,378,268	-----	3,378,268
1980-----	3,240,061	8,899	3,248,960	1985-----	6,355,861	-----	6,355,861
1981-----	3,160,804	-----	3,160,804	1986-----	4,578,513	1,100	4,579,613

* PASSENGERS--16,784.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
TOTAL-----	4,579,613	4,553	2,717,724	16,698	88,571	12,761	1,315,776	423,534
0131 FRESH FRUITS-----	2		2					
0141 FRESH AND FROZEN VEGETABLES-----	34		34					
0911 FRESH FISH, EXCEPT SHELLFISH-----	6,348					6,348		
0912 SHELLFISH, EXCEPT PREPARED-----	5,863					5,863		
1442 SAND, GRAVEL, CRUSHED ROCK-----	75,000							75,000
2039 PREP FRUIT AND VEG JUICE, NEC-----	2		2					
2099 MISCELLANEOUS FOOD PRODUCTS-----	11	11						
2311 APPAREL-----	21	21						
2411 LOGS-----	2,631,394		2,631,394					
2412 RAFTED LOGS-----	1,100					550		550
2416 WOOD CHIPS, STAVES, MULDINGS-----	73,709		73,709					
2421 LUMBER-----	74,697		6,177		68,720			
2711 PRINTED MATTER-----	2	2						
2819 BASIC CHEMICALS AND PROD, NEC-----	6,031		6,031					
2861 GUM AND WOOD CHEMICALS-----	11,916				11,916			
2914 DISTILLATE FUEL OIL-----	2,654			2,156				498
2915 RESIDUAL FUEL OIL-----	40,374			6,888				33,486
2918 ASPHALT, TAR, AND PITCHES-----	2,259	2,259						
2991 PETROLEUM AND COAL PROD, NEC-----	15,135			7,200	7,935			
3011 RUBBER AND MISC PLASTIC PROD-----	15	15						
3251 STRUCTURAL CLAY PRODUCTS-----	16	16						
3315 IRON, STEEL SHAPES, EXC SHEET-----	2,026	2,026						
3317 IRON AND STEEL PIPE AND TUBE-----	146	146						
3324 ALUMINUM AND ALLOYS, UNWORKED-----	3	3						
3511 MACHINERY, EXCEPT ELECTRICAL-----	9	9						
3611 ELECTRICAL MACH AND EQUIP-----	19	19						
3711 MOTOR VEHICLES, PARTS, EQUIP-----	305	25	280					
3791 MISC TRANSPORTATION EQUIPMENT-----	44		44					
3911 MISC MANUFACTURED PRODUCTS-----	1	1						
4029 WASTE AND SCRAP, NEC-----	1,630,226			450			1,315,776	314,000
0112 COMMODITIES, NEC-----	51		51					
TOTAL TON-MILES, 75,284,588.								

PORT ANGELES HARBOR, WASH.

SECTION INCLUDED: ENTIRE HARBOR FROM RAYONIER, INC. WHARF WESTWARD. CONTROLLING DEPTH: UNLIMITED EXCEPT FOR 25 FEET NEAR RAYONIER, INC. WHARF. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC
(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,854,789	428,223	3,283,012	1982-----	1,738,660	72,825	1,811,485
1978-----	4,029,194	638,891	4,668,085	1983-----	1,928,533	157,325	2,085,858
1979-----	3,969,021	1,875,249	5,844,270	1984-----	2,521,980	120,752	2,642,732
1980-----	3,572,160	705,537	4,277,697	1985-----	2,699,288	227,519	2,926,807
1981-----	1,795,068	179,915	1,974,983	1986-----	3,092,434	217,410	3,309,844

Waterborne Commerce of the United States, 1986

PORT ANGELES HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	SHIPMENTS	RECEIPTS	
				SHIPMENTS	RECEIPTS	
TOTAL-----	3,309,844	176,350	2,311,987	4,675	361,224	259,100
0101 COTTON, RAW-----	20		20			
0103 CORN-----	318		318			
0111 SOYBEANS-----	390		390			
0119 OILSEEDS, NEL-----	81		81			
0129 FIELD CROPS, NEC-----	54	1	53			
0131 FRESH FRUITS-----	731		731			
0132 BANANAS AND PLANTAINS-----	511		511			
0141 FRESH AND FROZEN VEGETABLES-----	931		931			
0161 ANIMALS AND PRODUCTS, NEC-----	9	9				
0191 MISCELLANEOUS FARM PRODUCTS-----	3	1	2			
0911 FRESH FISH, EXCEPT SHELLFISH-----	2,104		101		2,003	
0912 SHELLFISH, EXCEPT PREPARED-----	714				714	
1051 ALUMINUM ORES, CONCENTRATES-----	39,146	39,146				
1411 LIMESTONE-----	4,500	4,500				
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,334	3,334	2,000			
1499 NONMETALLIC MINERALS, NEC-----	37		37			
2011 MEAT, FRESH, CHILLED, FROZEN-----	309		309			
2015 ANIMAL BY-PRODUCTS, NEC-----	391		391			
2031 FISH AND SHELLFISH, PREPARED-----	126	93	33			
2034 VEGETABLES AND PREP, NEC-----	128	97	31			
2039 PREP FRUIT AND VEG JUICE, NEC-----	313		313			
2042 ANIMAL FEEDS-----	438		438			
2049 GRAIN MILL PRODUCTS, NEC-----	1,513		1,513			
2081 ALCOHOLIC BEVERAGES-----	466	266	200			
2091 VEGETABLE OILS, WARE, SHORT-----	2		2			
2099 MISCELLANEOUS FOOD PRODUCTS-----	177	88	89			
2111 TOBACCO MANUFACTURES-----	2	2				
2211 BASIC TEXTILE PRODUCTS-----	30	27	3			
2311 APPAREL-----	1		1			
2411 LOGS-----	2,039,332	2,959	2,036,373			
2412 RAFTED LOGS-----	217,410				62,240	134,901
2413 FUEL WOOD, CHANCDAL, WASTES-----	826	408			418	
2416 WOOD CHIPS, STAVES, MOLDINGS-----	382,647	121,656	208,183			11,714
2421 LUMBER-----	12,977		12,977			
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,445		1,445			
2491 WOOD MANUFACTURES, NEC-----	1,136		1,136			
2511 FURNITURE AND FIXTURES-----	21	21				
2611 PULP-----	141,639	864	31,046			109,729
2621 STANDARD NEWSPRINT PAPER-----	1,404		1,404			
2631 PAPER AND PAPERBOARD-----	3,988	66	959		207	2,756
2691 PULP AND PAPER PRODUCTS, NEC-----	45	14	31			
2711 PRINTED MATTER-----	2		2			
2810 SODIUM HYDROXIDE-----	36,607				36,607	
2819 BASIC CHEMICALS AND PROD, NEC-----	93	85	8			
2821 PLASTIC MATERIALS-----	76	18	58			
2841 SOAP-----	3,614		3,614			
2851 PAINTS-----	106	105	1			
2879 FERTILIZER AND MATERIALS, NEC-----	3		3			
2891 MISCELLANEOUS CHEMICAL PROD-----	10,533	22	46		10,465	
2911 GASOLINE-----	6,260				6,260	
2914 DISTILLATE FUEL OIL-----	20,328	1,716	3,522		15,090	
2915 RESIDUAL FUEL OIL-----	352,205			4,875	192,385	154,945
2916 LUBRICATING OILS AND GREASES-----	164				164	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	27		27			
2991 PETROLEUM AND COAL PROD, NEC-----	9,000				9,000	
3011 RUBBER AND MISC PLASTIC PROD-----	36	21	15			
3111 LEATHER AND LEATHER PRODUCTS-----	29		29			
3211 GLASS AND GLASS PRODUCTS-----	6	5	1			
3241 BUILDING CEMENT-----	5,747	76			5,671	
3251 STRUCTURAL CLAY PRODUCTS-----	24	24				
3291 MISC NONMETALLIC MINERAL PROD-----	61		61			
3315 IRON, STEEL SHAPES, EXC SHEET-----	166	166				
3319 IRON AND STEEL PRODUCTS, NEC-----	29	29				
3321 NONFERROUS METALS, NEC-----	1		1			
3322 COPPER ALLOYS, UNWORKED-----	24		24			
3323 LEAD AND ZINC, UNWORKED-----	54		54			
3324 ALUMINUM AND ALLOYS, UNWORKED-----	237	8	229			
3411 FABRICATED METAL PRODUCTS-----	154	105	49			
3511 MACHINERY, EXCEPT ELECTRICAL-----	153	98	55			
3611 ELECTRICAL MACH AND EQUIP-----	455	213	242			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	67	61	6			
3791 MISC TRANSPORTATION EQUIPMENT-----	7		7			
3911 MISC MANUFACTURED PRODUCTS-----	46	46				
4012 NONFERROUS METAL SCRAP-----	496		496			
4022 TEXTILE WASTE, SCRAP, SHEEP-----	10		10			
4024 PAPER WASTE AND SCRAP-----	437		437			
4112 COMMODITIES, NEC-----	924		924			
9999 DEPARTMENT OF DEFENSE AND SCI-----	14		14			

SEATTLE, WA, DISTRICT

59

PORT TOWNSEND HARBOR, WASH.

SECTION INCLUDED: POINT WILSON ON THE NORTH TO IRONDALE ON THE SOUTH. CONTROLLING DEPTH: CHANNEL FROM DEEP WATER TO BOAT BASIN, 6.9 FEET; OUTER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 11.3 FEET; INNER PORTION OF ENTRANCE CHANNEL IN BOAT BASIN, 11.8 FEET; PROJECT DEPTH: 10 AND 12 FEET ALLN IN THE INNER AND OUTER SECTIONS OF THE MOORING BASIN, RESPECTIVELY.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,262,736	-----	1,262,736	180,530	1982-----	764,139	-----	764,139	488,286
1978-----	680,737	-----	680,737	200,734	1983-----	558,213	1,050	559,263	303,165
1979-----	534,061	-----	534,061	739,362	1984-----	689,160	-----	689,160	520,185
1980-----	701,267	-----	701,267	254,672	1985-----	498,869	-----	498,869	516,465
1981-----	663,937	-----	663,937	296,302	1986-----	526,359	8,387	534,746	584,244

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS			EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1977-----	**	-----	-----	*	132,946	180,530	1982-----	**	-----	-----	*	202,248	488,286
1978-----	**	-----	-----	*	150,666	200,734	1983-----	**	-----	-----	*	211,015	303,165
1979-----	**	-----	-----	*	555,443	739,362	1984-----	**	-----	-----	*	219,371	520,195
1980-----	**	-----	-----	*	200,784	254,672	1985-----	**	-----	-----	*	273,486	516,465
1981-----	**	-----	-----	*	216,952	296,302	1986-----	**	-----	-----	*	252,942	331,302

* CARGO REPORTED AS FREIGHT TRAFFIC.
** NOT REPORTED.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC INTERNAL	
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS
TOTAL-----	534,746	264,406	28,910	203,967	37,463
0129 FIELD CROPS, NEC-----	11	-----	11	-----	-----
0133 COFFEE-----	39	39	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	509	-----	509	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	375	-----	-----	280	-----
0912 SHELLFISH, EXCEPT PREPARED-----	394	-----	-----	394	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	5,000	-----	5,000	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	79	-----	79	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	96	-----	96	-----	-----
2034 VEGETABLES AND PREP, NEC-----	41	-----	41	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	17	-----	17	-----	-----
2042 ANIMAL FEEDS-----	190	-----	190	-----	-----
2081 ALCOHOLIC BEVERAGES-----	440	-----	440	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	81	-----	81	-----	-----
2412 RAFTED LOGS-----	8,367	-----	-----	6,787	1,600
2413 FUEL WOOD, CHARCOAL, WASTES-----	75,684	35,718	-----	39,966	-----
2414 TIMBER, POSTS, POLES, PILING-----	10	-----	-----	10	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	304,813	226,603	4,584	73,626	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	18	-----	18	-----	-----
2611 PULP-----	30,885	-----	15,004	-----	19,881
2621 STANDARD NEWSPRINT PAPER-----	295	-----	295	-----	-----
2631 PAPER AND PAPERBOARD-----	16,679	-----	707	-----	15,972
2691 PULP AND PAPER PRODUCTS, NEC-----	10	-----	10	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	6	-----	6	-----	-----
2841 SOAP-----	17	-----	17	-----	-----
2861 GUM AND WOOD CHEMICALS-----	50,395	-----	-----	50,395	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	861	-----	861	-----	-----
2911 GASOLINE-----	1,738	-----	-----	1,738	-----
2914 DISTILLATE FUEL OIL-----	3,642	-----	-----	3,642	-----
2915 RESIDUAL FUEL OIL-----	22,839	-----	-----	22,839	-----
2916 LUBRICATING OILS AND GREASES-----	67	-----	-----	67	-----
2991 PETROLEUM AND COAL PROD, NEC-----	4,223	-----	-----	4,223	-----
3211 GLASS AND GLASS PRODUCTS-----	52	-----	52	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	73	46	27	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	147	-----	147	-----	-----
3321 NONFERROUS METALS, NEC-----	5	-----	5	-----	-----
3411 FABRICATED METAL PRODUCTS-----	20	-----	20	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3	-----	3	-----	-----
3731 SHIPS AND BOATS-----	3	-----	3	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	1	-----	1	-----	-----
4011 IRON AND STEEL SCRAP-----	2,226	2,000	216	-----	10
4012 NONFERROUS METAL SCRAP-----	363	-----	363	-----	-----
4112 COMMODITIES, NEC-----	8	-----	8	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	4	-----	4	-----	-----

Waterborne Commerce of the United States, 1986

PORT GAMBLE HARBOR, WASH.

SECTION INCLUDED: ENTRANCE CHANNEL AND PORT GAMBLE HARBOR. CONTROLLING DEPTH: 25.1 FEET AT MLLW. PROJECT DEPTH: 26 FEET AT MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	418,610	182,402	601,012	1982-----	303,656	228,420	532,276
1978-----	293,550	208,968	502,518	1983-----	328,370	247,457	575,827
1979-----	190,235	221,292	411,527	1984-----	358,066	419,391	777,457
1980-----	363,884	251,360	615,244	1985-----	390,183	273,129	663,312
1981-----	373,476	279,277	652,753	1986-----	307,470	343,174	650,644

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	650,644	152,918	331,444	166,282	
1042 SAND, GRAVEL, CRUSHED ROCK-----	550		550		
2412 RAFTED LOGS-----	343,174		330,794	12,380	
2413 FUEL WOOD, CHARCOAL, WASTES-----	42,905			42,905	
2416 WOOD CHIPS, STAVES, MOLDINGS-----	110,997			110,997	
2421 LUMBER-----	152,918	152,918			
3411 FABRICATED METAL PRODUCTS-----	100		100		

HAMMERSLEY INLET, WASH.

SECTION INCLUDED: INLET CONNECTING PUGET SOUND WITH SHELTON HARBOR, A DISTANCE OF ABOUT 7 MILES. CONTROLLING DEPTH: 8.8 FEET. PROJECT DEPTH: 13 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	338,478	735,303	1,073,781	1982-----	221,413	789,020	1,010,433
1978-----	302,539	902,996	1,205,535	1983-----	228,339	847,582	1,075,921
1979-----	149,242	886,802	1,036,044	1984-----	193,706	807,975	1,001,681
1980-----	211,633	935,565	1,147,198	1985-----	148,564	352,894	501,458
1981-----	227,306	861,909	1,109,215	1986-----	133,578	232,274	365,852

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL	
		INBOUND	OUTBOUND
TOTAL-----	365,852	2,654	363,198
0911 FRESH FISH, EXCEPT SHELLFISH-----	121	121	
0912 SHELLFISH, EXCEPT PREPARED-----	908	908	
2412 RAFTED LOGS-----	232,274	1,625	230,649
2416 WOOD CHIPS, STAVES, MOLDINGS-----	132,549		132,549

OLYMPIA HARBOR, WASH.

SECTION INCLUDED: THAT PORTION OF BUDD INLET SOUTH AND WEST OF PRIEST POINT AND GENERALLY WITHIN THE CITY LIMITS OF OLYMPIA. CONTROLLING DEPTH: 29.7 FEET IN OUTER CHANNEL, 31.3 FEET IN ENTRANCE CHANNEL AND 28.4 FEET IN TURNING BASIN. PROJECT DEPTH: 30 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	446,594	89,664	536,458	1982-----	380,241	106,179	494,420
1978-----	566,001	303,489	869,490	1983-----	236,832	178,499	415,331
1979-----	607,642	186,188	793,830	1984-----	503,192	318,397	821,589
1980-----	589,687	131,312	720,999	1985-----	470,833	126,550	605,583
1981-----	361,974	461,346	823,320	1986-----	312,140	886,370	1,198,510

* PASSENGERS--752.

SEATTLE, WA, DISTRICT

61

OLYMPIA HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1946

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	
TOTAL-----	1,198,510	6,584	298,726	117,410	168,317	607,073
0911 FRESH FISH, EXCEPT SHELLFISH-----	426			426		
0912 SHELLFISH, EXCEPT PREPARED-----	139		13	126		
2311 APPAREL-----	3	3				
2411 LOGS-----	298,713		298,713			
2412 RAFTED LOGS-----	886,370			110,980	168,317	607,073
2914 DISTILLATE FUEL OIL-----	416			416		
2915 RESIDUAL FUEL OIL-----	5,862			5,862		
3291 MISC NONMETALLIC MINERAL PROD-----	3,858	3,858				
3317 IRON AND STEEL PIPE AND TUBE-----	2,723	2,723				

TACOMA HARBOR, WASH.

SECTION INCLUDED: ALL OF COMMENCEMENT BAY AND TRIBUTARY WATERWAYS EAST OF A LINE EXTENDING FROM BROWN POINT TO AND INCLUDING THE HARVES OF THE TACOMA SMELTER. CONTROLLING DEPTHS: CITY WATERWAY, 28.9 TO 16.2 FEET; HYLEBOS WATERWAY, 23.4 FEET; LEAST DEPTH IN TURNING BASIN 29.2 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 32.8 FEET. PROJECT DEPTHS: CITY WATERWAY, 29 TO 19 FEET; HYLEBOS WATERWAY, 30 FEET; BLAIR (PORT INDUSTRIAL WATERWAY), 30 TO 35 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	10,381,037	318,300	10,699,337	191,759	1982-----	12,168,282	1,078,657	13,246,939	432,550
1978-----	12,388,337	695,617	13,083,954	179,265	1983-----	13,270,172	1,188,202	14,458,374	226,406
1979-----	14,280,941	911,809	15,192,550	184,909	1984-----	16,062,681	1,320,544	17,383,225	472,546
1980-----	15,879,548	1,282,662	17,162,210	175,592	1985-----	14,703,611	1,090,921	15,794,532	492,064
1981-----	14,194,501	976,263	15,170,764	193,906	1986-----	14,943,410	1,229,678	16,173,088	257,401

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS			EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1977-----	#	-----	-----	**	177,984	191,759	1982-----	#	-----	-----	**	211,440	432,550
1978-----	#	-----	-----	**	206,306	179,265	1983-----	#	-----	-----	**	222,278	226,406
1979-----	#	-----	-----	**	221,609	184,909	1984-----	#	-----	-----	**	233,522	472,546
1980-----	#	-----	-----	**	200,840	175,592	1985-----	#	-----	-----	**	262,242	492,064
1981-----	#	-----	-----	**	228,406	193,906	1986-----	#	-----	-----	**	257,618	257,401

* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.
 ** CARGO REPORTED AS FREIGHT TRAFFIC.
 # NOT REPORTED.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
				RECEIPTS	SHIPMENTS	
TOTAL-----	16,173,088	3,973,323	6,731,988	1,827,375	883,724	1,560,978
0101 COTTON, RAW-----	3,041		3,041			
0102 BARLEY AND RYE-----	423,841	404	423,437			
0103 CORN-----	1,200,408		1,192,263		8,145	
0104 OATS-----	120		120			
0105 RICE-----	1,769	1,744	2		23	
0106 SORGHUM GRAINS-----	27,393		27,393			
0107 WHEAT-----	160,101		160,101			
0111 SOYBEANS-----	424,653		424,653			
0119 OILSEEDS, NEC-----	469	25	444			
0121 TOBACCO, LEAF-----	981	383	598			
0129 FIELD CROPS, NEC-----	2,127	1,158	969			
0131 FRESH FRUITS-----	53,764	6,241	44,131		3,392	
0132 BANANAS AND PLANTAINS-----	743				743	
0133 COFFEE-----	5,634	5,625	9			
0134 COCOA BEANS-----	77		77			
0141 FRESH AND FROZEN VEGETABLES-----	51,041	2,853	44,811		3,377	
0151 LIVE ANIMALS-----	87					
0161 ANIMALS AND PRODUCTS, NEC-----	1,950	886	521		543	
0191 MISCELLANEOUS FARM PRODUCTS-----	417	394	23			
0841 CRUDE RUBBER AND ALLIED GUMS-----	107,010	106,149	821			
0861 FOREST PRODUCTS, NEC-----	1,483	1,378	51		54	
0911 FRESH FISH, EXCEPT SHELLFISH-----	36,923	3,057	21,876	11,076		777
0912 SHELLFISH, EXCEPT PREPARED-----	7,259	1,602	3,813			1,477
0931 MARINE SHELLS, UNMANUFACTURED-----	545	57	46			
1051 ALUMINUM ORES, CONCENTRATES-----	389,412	389,354	56			
1091 NONFERROUS ORES, CONCENT, NEC-----	365,437	365,273	164			
1121 COAL AND LIGNITE-----	1,624,877		885			
1311 CRUDE PETROLEUM-----			6,906	1,617,971		

Waterborne Commerce of the United States, 1986

TACOMA HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
1411 LIMESTONE-----	131,785	131,785	-----	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	352,859	6,288	4,459	80	342,006	-----	-----	-----
1451 CLAY-----	8,284	-----	8,176	108	-----	-----	-----	-----
1471 PHOSPHATE ROCK-----	33	-----	33	-----	-----	-----	-----	-----
1491 SALT-----	657,854	647,975	9,828	51	-----	-----	-----	-----
1494 GYPSUM, CRUDE AND PLASTERS-----	347,047	346,796	251	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	19,520	1,009	18,447	64	-----	-----	-----	-----
1911 ORDNANCE AND ACCESSORIES-----	326	323	5	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	36,747	20,668	13,608	2,471	-----	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	1,760	1,533	227	-----	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	57,557	-----	57,557	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	1,977	1	1,976	-----	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	4,037	516	515	8,006	-----	-----	-----	-----
2022 DRIED MILK AND CREAM-----	21,103	226	20,675	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	39,565	12,629	6,222	20,590	124	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	7,470	3,277	4,193	-----	-----	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	38,251	35,804	2,440	7	-----	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	14	-----	14	-----	-----	-----	-----	-----
2042 ANIMAL FEEDS-----	73,278	4,637	68,506	135	-----	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	4,269	607	3,662	-----	-----	-----	-----	-----
2061 SUGAR-----	76	-----	76	-----	-----	-----	-----	-----
2062 MOLASSES-----	1	-----	-----	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	6,075	4,099	527	1,049	-----	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	1,799	81	1,718	-----	-----	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	1	-----	-----	-----	-----	-----	-----	-----
2094 GROCERIES-----	273,035	-----	-----	3	273,032	-----	-----	-----
2095 ICE-----	73	73	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	34,637	10,014	16,056	8,567	-----	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	7,143	9	6,900	234	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	58,047	56,234	1,800	13	-----	-----	-----	-----
2212 TEXTILE FIBERS, NEC-----	2	-----	-----	-----	-----	-----	-----	-----
2311 APPAREL-----	125,514	124,940	296	283	-----	-----	-----	-----
2411 LOGS-----	1,960,291	457	1,959,834	-----	-----	-----	-----	-----
2412 RAFTED LOGS-----	1,229,678	-----	-----	-----	696,397	291,270	242,011	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	2,129	1,833	249	47	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	2,122	9	588	22	1,497	6	-----	-----
2416 WOOD CHIPS, STAVES, MOLTINGS-----	839,979	87,750	551,770	-----	198,394	-----	2,065	-----
2421 LUMBER-----	533,134	7,743	502,997	14	22,014	283	83	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	7,220	4,814	2,385	21	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	42,144	16,245	4,747	22	20,814	233	83	-----
2511 FURNITURE AND FIXTURES-----	64,289	43,997	1,575	10,196	8,519	-----	-----	-----
2611 PULP-----	168,439	56	166,983	-----	1,400	-----	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	94,618	20,577	73,991	250	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	108,846	8,950	99,896	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	18,023	3,803	1,365	12,855	-----	-----	-----	-----
2711 PRINTED MATTER-----	13,148	11,647	1,266	235	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	148,701	-----	-----	-----	54,810	93,691	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	12,378	562	10	11,779	27	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	141	-----	141	-----	-----	-----	-----	-----
2813 ALCOHOLS-----	457	63	394	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	12	-----	12	-----	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	74,645	7,971	59,301	7,573	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	79,152	16,859	62,239	54	-----	-----	-----	-----
2822 SYNTHETIC RUBBER-----	13,075	-----	13,075	-----	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	1,583	389	1,194	-----	-----	-----	-----	-----
2831 DRUGS-----	2,817	1,350	1,467	-----	-----	-----	-----	-----
2841 SOAP-----	16,531	878	15,456	197	-----	-----	-----	-----
2851 PAINTS-----	4,222	3,304	798	120	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	51,416	12	740	-----	40,874	7,529	2,261	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	238	20	203	15	-----	-----	-----	-----
2872 POTASSIC CHEM FERTILIZERS-----	447	447	-----	-----	-----	-----	-----	-----
2876 INSECTICIDES, DISINFECTANTS-----	3,188	530	2,658	-----	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	39,902	7,045	6,619	7,298	18,940	-----	-----	-----
2911 GASOLINE-----	207,203	127,623	1	55,095	4,931	7,088	8,769	3,696
2912 JET FUEL-----	181,116	-----	-----	5,044	-----	137,723	38,351	-----
2914 DISTILLATE FUEL OIL-----	121,465	-----	6,075	16,320	41,051	10,393	31,449	14,177
2915 RESIDUAL FUEL OIL-----	637,685	3,830	16,137	108,778	108,811	149,678	250,451	-----
2916 LUBRICATING OILS AND GREASES-----	11,207	51	4,171	6,835	84	-----	66	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	1,182	-----	634	43	-----	505	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	5,012	4,996	1	15	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	45	-----	45	-----	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	25	-----	-----	25	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	233	-----	233	-----	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	45,063	63	-----	24,274	13,256	7,470	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	75,065	68,396	3,064	3,332	273	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	84,761	82,768	1,943	50	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	8,949	7,726	1,157	66	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	3,666	3,501	367	-----	-----	-----	-----	-----
3271 LIME-----	362	-----	362	-----	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	1,095	1,076	19	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	89,476	42,789	3,251	12	21,346	234	21,844	-----
3311 PIG IRON-----	5,148	5,148	-----	-----	-----	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	116	-----	-----	116	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	29,325	25,432	94	124	-----	3,675	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	12,918	1	12,917	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	12,847	9,089	621	605	1,532	800	-----	-----
3318 FERROALLOYS-----	6,564	5,677	687	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	1,065	975	90	-----	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	4,708	3,022	1,686	-----	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	9,273	8,749	524	-----	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	21,456	2,781	18,675	-----	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	40,525	3,895	45,630	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	181,547	116,928	7,417	2,387	54,815	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	171,755	131,128	34,198	1,903	24,466	60	-----	-----

TACOMA HARBOR, WASH.--CONTINUED
 FREIGHT TRAFFIC, 1986--CONTINUED
 (SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
3611 ELECTRICAL MACH AND EQUIP-----	248,423	240,176	8,127	-----	120	-----	-----	
3711 MOTOR VEHICLES, PARTS, EQUIP-----	314,056	274,261	18,926	7,476	13,395	-----	-----	
3721 AIRCRAFT AND PARTS-----	138	58	80	-----	-----	-----	-----	
3731 SHIPS AND BOATS-----	4,195	3,961	187	-----	47	-----	-----	
3791 MISC TRANSPORTATION EQUIPMENT-----	2,200	833	1,354	-----	13	-----	-----	
3811 INSTR, TIME, PHOTO, OPT GOODS-----	23,187	12,977	10,315	-----	-----	-----	-----	
3911 MISC MANUFACTURED PRODUCTS-----	128,637	125,257	3,284	-----	96	-----	-----	
4011 IRON AND STEEL SCRAP-----	374,008	85,119	288,721	168	-----	-----	-----	
4012 NONFERROUS METAL SCRAP-----	30,731	47	30,684	-----	-----	-----	-----	
4022 TEXTILE WASTE, SCRAP, SWEEP-----	1,576	-----	1,576	-----	-----	-----	-----	
4024 PAPER WASTE AND SCRAP-----	83,494	-----	83,474	20	-----	-----	-----	
4029 WASTE AND SCRAP, NEC-----	6,526	-----	-----	-----	-----	-----	6,520	
4112 COMMODITIES, NEC-----	199,446	30,850	4,493	27,960	136,044	51	50	
4119 EMPTY CONTAINERS-----	15,341	-----	-----	15,167	174	-----	-----	
9999 DEPARTMENT OF DEFENSE AND SCI-----	133	-----	133	-----	-----	-----	-----	

SEATTLE HARBOR, WASH.

SECTION INCLUDED: FROM UNION OIL DOCK NEAR EDMONDS ON THE NORTH TO FAUNTILERDY FERRY SLIP ON THE SOUTH, INCLUDING ELLIOTT BAY, EAST, WEST, AND DUWAMISH WATERWAY, LAKE WASHINGTON SHIP CANAL, SALMON BAY, LAKE UNION, LAKE WASHINGTON, AND KENMORE NAVIGATION CHANNEL. CONTROLLING DEPTH: ELLIOTT BAY, UNLIMITED; WEST WATERWAY, 28.1 FEET; EAST WATERWAY, 31.2 FEET; DUWAMISH WATERWAY, 18.2 FEET FROM HEAD OF WEST WATERWAY TO 1ST AVENUE SO., 11.0 FEET FROM 1ST AVENUE SO. TO 14TH AVENUE SO., 8.5 FEET FROM 14TH AVENUE SO. TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 29.2 FEET BELOW LOCKS; ABOVE THE LOCKS 26.1 FEET; KENMORE NAVIGATION CHANNEL, 13.7 FEET. PROJECT DEPTH: ELLIOTT BAY, UNLIMITED; EAST AND WEST WATERWAYS, 34 FEET; DUWAMISH WATERWAY, 30 FEET TO FIRST AVENUE SOUTH; 20 FEET TO 8TH AVENUE SOUTH; AND 15 FEET FROM 8TH AVENUE SOUTH TO HEAD OF WATERWAY; LAKE WASHINGTON SHIP CANAL, 34 FEET BELOW LOCKS; 30 FEET AT LOWER POOL LEVEL, KENMORE NAVIGATION CHANNEL, 15 FEET. ALL DEPTHS REFER TO MLLA EXCEPT INSIDE LAKE WASHINGTON SHIP CANAL WHICH REFLECTS LOW LAKE LEVEL.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	16,080,656	352,220	16,432,876	6,051,503	1982-----	17,488,117	117,051	17,605,168	10,071,567
1978-----	22,137,870	343,795	22,481,665	6,540,219	1983-----	17,467,937	115,873	17,583,810	6,577,344
1979-----	19,791,540	246,890	20,038,430	6,290,453	1984-----	20,269,324	58,550	20,327,874	12,543,418
1980-----	21,106,410	182,426	21,288,836	6,899,602	1985-----	16,026,992	243,021	16,230,013	14,706,012
1981-----	20,320,142	194,412	20,514,554	6,944,579	1986-----	16,326,133	771,605	17,097,738	9,575,907

ADDITIONAL TRAFFIC

YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	TONS	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS			EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1977-----	**	-----	-----	-----	3,379,812	6,051,503	1982-----	**	-----	-----	-----	3,431,350	10,071,567
1978-----	**	-----	-----	-----	3,704,037	6,540,219	1983-----	**	133	-----	133	3,473,165	6,577,344
1979-----	**	-----	-----	-----	4,566,263	6,290,453	1984-----	**	-----	-----	-----	4,727,421	12,543,418
1980-----	**	-----	-----	-----	3,771,474	6,899,602	1985-----	**	-----	-----	-----	5,909,144	14,706,012
1981-----	**	-----	-----	-----	3,485,863	6,944,579	1986-----	**	-----	-----	-----	6,120,764	9,575,907

* INCLUDES AUTOMOBILES, TRUCKS, AND TRAILERS.
 ** NOT REPORTED.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC				LOCAL
		IMPORTS	EXPORTS	COASTWISE		INTERNAL		
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	17,097,938	4,901,232	4,125,603	1,221,058	1,153,548	3,402,586	1,065,665	1,228,246
0101 COTTON, RAW-----	28,728	-----	28,728	-----	-----	-----	-----	-----
0102 BARLEY AND RYE-----	3,287	2,161	1,126	-----	-----	-----	-----	-----
0103 CORN-----	237,270	39	237,231	-----	-----	-----	-----	-----
0104 OATS-----	2,084	-----	2,084	-----	-----	-----	-----	-----
0105 RICE-----	10,194	8,774	1,420	-----	-----	-----	-----	-----
0106 BOROGRUM GRAINS-----	396	-----	396	-----	-----	-----	-----	-----
0107 WHEAT-----	179,060	-----	179,060	-----	-----	-----	-----	-----
0111 SOYBEANS-----	141,379	-----	141,379	-----	-----	-----	-----	-----
0112 FLAXSEED-----	115	-----	-----	-----	115	-----	-----	-----
0119 OILSEEDS, NEC-----	19,184	159	19,025	-----	-----	-----	-----	-----
0121 TOBACCO, LEAF-----	892	-----	892	-----	-----	-----	-----	-----
0122 HAY AND FODDER-----	273	-----	-----	-----	273	-----	-----	-----
0129 FIELD CROPS, NEC-----	38,945	1,450	37,495	-----	-----	-----	-----	-----
0131 FRESH FRUITS-----	129,332	23,402	102,265	14	3,651	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	11	11	-----	-----	-----	-----	-----	-----
0133 COFFEE-----	5,351	5,265	55	31	-----	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	143,536	2,611	132,676	46	8,203	-----	-----	-----
0151 LIVE ANIMALS-----	38	38	-----	-----	-----	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	12,340	1,749	7,875	2,716	-----	-----	-----	-----
0191 MISCELLANEOUS FARM PRODUCTS-----	2,678	1,148	325	-----	1,205	-----	-----	-----
9941 CRUDE RUBBER AND ALLIED GUMS-----	44	44	-----	-----	-----	-----	-----	-----

SEATTLE HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
0861 FOREST PRODUCTS, NEC-----	3,876	1,297	1,372	2	1,205	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	96,241	5,587	66,981	20,178	986	2,509	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	14,984	8,602	3,795	794	1,403	390	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	2,672	27	2,177	468	-----	-----	-----	-----
1021 COPPER ORE AND CONCENTRATES-----	295	-----	295	-----	-----	-----	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	14,925	14,760	165	-----	-----	-----	-----	-----
1061 MANGANESE ORES, CONCENTRATES-----	66	37	29	-----	-----	-----	-----	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	2,381	635	1,746	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	18,442	3,599	190	255	14,398	-----	-----	-----
1311 CRUDE PETROLEUM-----	2,016	64	-----	-----	-----	1,952	-----	-----
1411 LIMESTONE-----	204,690	204,650	40	-----	-----	-----	-----	-----
1412 BUILDING STONE, UNWORKED-----	2,881	-----	2,865	-----	16	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,629,426	633,256	42,216	-----	2,044	1,641,408	257,200	3,322
1451 CLAY-----	131,530	292	26,333	-----	15	90,547	14,343	-----
1471 PHOSPHATE ROCK-----	165	2	163	-----	-----	-----	-----	-----
1479 NATURAL FERTILIZER MATS, NEC-----	39	39	-----	-----	-----	-----	-----	-----
1491 SALT-----	5,731	48	-----	24	5,659	-----	-----	-----
1492 SULPHUR, DRY-----	25,287	-----	8,349	200	16,738	-----	-----	-----
1499 GYPSUM, CRUDE AND PLASTERS-----	98,725	97,772	953	-----	-----	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	114,164	951	25,973	-----	492	2,500	40,448	43,800
1911 ORDNANCE AND ACCESSORIES-----	784	474	310	-----	-----	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	59,324	3,651	51,535	75	4,063	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	2,844	515	2,144	185	-----	-----	-----	-----
2014 TALLOW, ANIMAL FATS AND OILS-----	25,793	50	25,793	-----	-----	-----	-----	-----
2015 ANIMAL BY-PRODUCTS, NEC-----	252,224	50	252,174	-----	-----	-----	-----	-----
2021 DAIRY PRODUCTS, NEC-----	1,772	632	170	-----	970	-----	-----	-----
2022 DRIED MILK AND CREAM-----	7,115	55	7,060	-----	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	130,062	17,905	24,118	87,449	592	-----	-----	-----
2034 VEGETABLES AND PREP, NEC-----	40,714	23,755	11,628	98	5,233	-----	-----	-----
2039 PREP FRUIT AND VEG JUICE, NEC-----	93,444	65,985	6,150	19,624	2,041	-----	-----	-----
2041 WHEAT FLOUR AND SEMOLINA-----	3,693	-----	421	-----	5,272	-----	-----	-----
2042 ANIMAL FEEDS-----	285,476	464	281,807	-----	3,205	-----	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	61,695	4,880	56,889	-----	126	-----	-----	-----
2061 SUGAR-----	17,131	222	13,048	3,741	120	-----	-----	-----
2062 MOLASSES-----	35,812	-----	31,912	1	-----	-----	-----	1,400
2081 ALCOHOLIC BEVERAGES-----	108,825	69,452	23,456	1	15,916	-----	-----	-----
2091 VEGETABLE OILS, MARG, SHORT-----	3,250	784	2,136	-----	330	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	257	146	-----	43	18	-----	-----	-----
2094 GROCERIES-----	31,401	-----	-----	65	31,336	-----	-----	-----
2095 ICE-----	2,717	2,717	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	108,972	21,937	42,751	6,284	38,000	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	812	56	756	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	80,978	70,872	9,927	11	168	-----	-----	-----
2212 TEXTILE FIBERS, NEC-----	112	108	1	-----	3	-----	-----	-----
2311 APPAREL-----	176,871	173,881	3,190	-----	-----	-----	-----	-----
2411 LOGS-----	84,644	33,089	49,368	85	2,102	-----	-----	-----
2412 RAFTED LOGS-----	771,805	-----	-----	-----	36,042	393,745	342,018	-----
2413 FUEL WOOD, CHARCOAL, WASTES-----	7,159	3,406	1,716	78	1,959	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	13,554	627	1,785	6	251	6,053	2,937	1,895
2416 WOOD CHIPS, STAVES, MOLDINGS-----	72,207	34,303	37,904	-----	-----	-----	-----	-----
2421 LUMBER-----	506,941	10,207	413,166	21,725	57,774	1,081	1,143	1,845
2431 VENEER, PLYWOOD, WORKED WOOD-----	17,481	3,032	8,192	152	6,105	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	88,422	21,894	39,359	198	24,807	20	418	1,726
2511 FURNITURE AND FIXTURES-----	79,042	64,636	3,087	5,189	6,130	-----	-----	-----
2611 PULP-----	631,294	5,942	437,725	58,128	-----	129,499	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	400,327	286,651	109,812	-----	3,864	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	413,170	21,317	366,764	23	6,131	18,728	207	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	38,177	7,405	6,502	1,777	22,493	-----	-----	-----
2711 PRINTED MATTER-----	41,452	38,802	2,634	-----	16	-----	-----	-----
2810 SODIUM HYDROXIDE-----	46,064	-----	-----	-----	46,064	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	17,553	6,100	525	10,928	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	2,284	-----	1,251	-----	1,033	-----	-----	-----
2813 ALCOHOLS-----	2,433	1,161	935	-----	337	-----	-----	-----
2816 RADIOACTIVE MATERIALS, WASTES-----	213	165	34	14	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	1,144	-----	15	-----	1,129	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	82,183	31,032	45,199	208	5,744	-----	-----	-----
2921 PLASTIC MATERIALS-----	97,696	44,658	50,840	14	2,184	-----	-----	-----
2922 SYNTHETIC RUBBER-----	114	18	96	-----	-----	-----	-----	-----
2923 SYNTHETIC (MAN-MADE) FIBERS-----	7,339	1,331	6,008	-----	-----	-----	-----	-----
2931 DRUGS-----	4,275	1,846	2,429	-----	-----	-----	-----	-----
2941 SOAP-----	49,157	4,546	43,720	-----	891	-----	-----	-----
2951 PAINTS-----	21,690	18,143	3,077	29	441	-----	-----	-----
2961 GUM AND WOOD CHEMICALS-----	237,202	24	1,911	-----	32	109,860	120,035	5,340
2971 NITROGENOUS CHEM FERTILIZERS-----	13,312	234	2,291	-----	10,837	-----	-----	-----
2972 POTASSIC CHEM FERTILIZERS-----	489	19	470	-----	-----	-----	-----	-----
2973 PHOSPHATIC CHEM FERTILIZERS-----	36	20	16	-----	-----	-----	-----	-----
2974 INSECTICIDES, DISINFECTANTS-----	6,757	667	6,090	-----	-----	-----	-----	-----
2979 FERTILIZER AND MATERIALS, NEC-----	3,663	1,032	366	221	2,244	-----	-----	-----
2991 MISCELLANEOUS CHEMICAL PROD-----	26,823	6,071	12,594	-----	9,608	550	-----	-----
2911 GASOLINE-----	769,643	103,359	346	235,744	46,189	259,722	48,050	76,233
2912 JET FUEL-----	136,269	828	156	36,733	52,728	44,653	-----	3,171
2914 DISTILLATE FUEL OIL-----	708,829	16,190	7,718	200,751	70,974	151,594	55,140	206,462
2915 RESIDUAL FUEL OIL-----	1,401,226	3,283	7,912	316,656	29,587	536,635	118,276	388,877
2916 LUBRICATING OILS AND GREASES-----	45,499	1,316	4,365	37,833	1,333	-----	315	337
2917 NAPHTHA, PETROLEUM SOLVENTS-----	2,046	-----	94	1,952	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	37,424	73	166	34,334	2,851	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	24,794	-----	402	-----	-----	24,392	-----	-----
2921 LIQUEFIED GASES-----	1,793	80	383	37	1,293	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	803	-----	331	5	267	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	109,751	616	765	16,872	20,114	69,192	2,192	-----
3011 RUBBER AND MISC PLASTIC PROD-----	181,613	163,031	16,738	193	1,651	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	93,007	80,750	12,243	-----	14	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	38,266	25,328	12,662	-----	276	-----	-----	-----
3241 BUILDING CEMENT-----	451,600	303,169	354	10,249	30,679	89,949	-----	17,200

SEATTLE, WA, DISTRICT

65

SEATTLE HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
3251 STRUCTURAL CLAY PRODUCTS-----	24,932	22,271	2,521	-----	140	-----	-----	-----
3271 LIME-----	140	-----	53	-----	87	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	8,484	7,436	324	-----	724	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	146,294	82,859	7,579	221	31,304	21,808	268	2,255
3312 SLAG-----	1,044	-----	-----	-----	1,044	-----	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	826	50	773	-----	3	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	131,795	126,985	615	-----	515	3,675	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	10,221	3,385	3,492	64	3,280	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	51,407	41,566	828	1,561	2,152	-----	500	4,600
3318 FERROALLOYS-----	2,201	660	1,581	-----	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	13,748	12,256	1,078	-----	454	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	7,435	1,763	5,502	20	-----	-----	150	-----
3322 COPPER ALLOYS, UNWORKED-----	14,577	5,301	9,261	-----	15	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	6,697	298	6,132	-----	267	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	113,389	29,042	84,347	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	334,759	260,425	19,100	3,916	46,660	-----	450	4,008
3511 MACHINERY, EXCEPT ELECTRICAL-----	422,939	370,327	28,710	5,070	10,750	100	20	7,962
3611 ELECTRICAL MACH AND EQUIP-----	459,246	438,741	19,398	56	1,051	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	381,199	347,039	7,984	7,049	19,127	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	5,059	4,675	379	2	3	-----	-----	-----
3731 SHIPS AND BOATS-----	7,034	4,609	1,012	241	1,172	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	4,473	2,320	1,555	97	501	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	39,628	36,514	3,514	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	209,105	181,610	10,500	13,433	3,522	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	29,464	2,701	23,763	2,666	-----	20	-----	40
4012 NONFERROUS METAL SCRAP-----	73,704	66	73,570	68	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	10,409	313	10,096	-----	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	159,654	-----	159,654	-----	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	186,614	-----	-----	-----	-----	65,545	7,825	113,240
4112 COMMODITIES, NEC-----	585,455	94,779	23,957	20,580	444,538	50	51	1,500
4113 LCL FREIGHT-----	8	-----	-----	-----	8	-----	-----	-----
4119 EMPTY CONTAINERS-----	1,827	-----	-----	1,660	167	-----	-----	-----
9999 DEPARTMENT OF DEFENSE AND SCI-----	7,123	-----	7,123	-----	-----	-----	-----	-----

LAKE WASHINGTON SHIP CANAL, WASH.
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)

SECTION 1 INCLUDED: AS DESCRIBED UNDER SEATTLE HARBOR, WASH.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	1,348,726	131,321	1,480,049	48,591	1982-----	1,226,680	90,027	1,316,707	27,747
1978-----	1,733,392	211,265	1,944,657		1983-----	543,657	59,965	603,622	94,178
1979-----	1,793,454	145,891	1,939,345	68,665	1984-----	1,233,876	37,964	1,271,840	95,348
1980-----	1,571,656	102,495	1,674,153	38,397	1985-----	1,632,092	203,021	1,835,113	99,437
1981-----	1,831,203	145,361	1,976,564	85,936	1986-----	1,228,971	531,580	1,760,551	104,496

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
TOTAL-----	1,760,551	34,879	1,129	63,402	97,959	675,738	438,732	448,712
0122 HAY AND FODDER-----	272				272			
0131 FRESH FRUITS-----	30				30			
0141 FRESH AND FROZEN VEGETABLES-----	31				31			
0191 MISCELLANEOUS FARM PRODUCTS-----	72				72			
0861 FOREST PRODUCTS, NEC-----	156				156			
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,141			284	857			
1442 SAND, GRAVEL, CRUSHED ROCK-----	891,000	34,689			384	632,227	223,700	
1451 CLAY-----	15				15			
1491 SALT-----	3,339			24	3,315			
1499 NONMETALLIC MINERALS, NEC-----	46				46			
2011 MEAT, FRESH, CHILLED, FROZEN-----	953				953			
2031 FISH AND SHELLFISH, PREPARED-----	57,791			56,974		817		
2039 PREP FRUIT AND VEG JUICE, NEC-----	1,493				1,493			
2042 ANIMAL FEEDS-----	200				200			
2049 GRAIN MILL PRODUCTS, NEC-----	5				5			
2081 ALCOHOLIC BEVERAGES-----	2,849				2,849			
2094 GROCERIES-----	9,052			36	9,016			
2099 MISCELLANEOUS FOOD PRODUCTS-----	870				870			
2211 BASIC TEXTILE PRODUCTS-----	20				20			
2411 LOGS-----	259		259					
2412 RAFTED LOGS-----	531,540					7,302	211,060	313,218
2414 TIMBER, POSTS, POLES, PILING-----	552			4	152	158	61	175
2421 LUMBER-----	6,181			12	6,141			28
2431 VENEER, PLYWOOD, WORKED WOOD-----	570				570			
2491 WOOD MANUFACTURES, NEC-----	6,327			63	6,264			
2511 FURNITURE AND FIXTURES-----	756			367	389			
2611 PULP-----	853		853					

Waterborne Commerce of the United States, 1986

LAKE WASHINGTON SHIP CANAL, WASH.
(INCLUDED IN TRAFFIC OF SEATTLE HARBOR, WASH.)--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----	-----	118	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	5	-----	-----	-----	5	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	2,122	-----	-----	12	2,110	-----	-----	-----
2711 PRINTED MATTER-----	16	-----	-----	-----	16	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	186	23	-----	16	141	-----	-----	-----
2821 PLASTIC MATERIALS-----	144	-----	-----	2	142	-----	-----	-----
2841 SOAP-----	32	-----	17	-----	15	-----	-----	-----
2851 PAINTS-----	263	-----	-----	6	257	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	3,452	-----	-----	-----	32	-----	3,420	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	180	-----	-----	-----	180	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	670	-----	-----	-----	670	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	48	-----	-----	-----	48	-----	-----	-----
2911 GASOLINE-----	52,085	-----	-----	-----	195	1,291	-----	50,599
2914 DISTILLATE FUEL OIL-----	114,447	-----	-----	-----	6,395	30,240	522	77,490
2916 LUBRICATING OILS AND GREASES-----	627	-----	-----	-----	295	-----	169	163
2918 ASPHALT, TAR, AND PITCHES-----	132	-----	-----	-----	132	-----	-----	-----
2921 LIQUEFIED GASES-----	568	-----	-----	37	531	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	64	-----	-----	5	59	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	480	-----	-----	24	456	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	123	-----	-----	-----	123	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	28	-----	-----	-----	28	-----	-----	-----
3241 BUILDING CEMENT-----	9,087	-----	-----	48	2,039	-----	-----	7,000
3251 STRUCTURAL CLAY PRODUCTS-----	41	-----	-----	-----	41	-----	-----	-----
3271 LIME-----	87	-----	-----	-----	87	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	814	132	-----	-----	682	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	6,245	-----	-----	11	6,206	28	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	3	-----	-----	-----	3	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	3,834	-----	-----	-----	159	3,675	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	1,318	-----	-----	-----	1,318	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	454	-----	-----	-----	454	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	15	-----	-----	-----	15	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	7,494	-----	-----	501	6,985	-----	-----	8
3411 MACHINERY, EXCEPT ELECTRICAL-----	2,344	35	-----	1,339	969	-----	-----	1
3611 ELECTRICAL MACH AND EQUIP-----	166	-----	-----	47	121	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,514	-----	-----	716	798	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	2	-----	-----	2	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	873	-----	-----	227	646	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	429	-----	-----	86	343	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	56	-----	-----	2	54	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	215	-----	-----	205	-----	-----	-----	10
4029 WASTE AND SCRAP, NEC-----	20	-----	-----	-----	-----	-----	-----	20
4112 COMMODITIES, NEC-----	32,960	-----	-----	1,977	30,983	-----	-----	-----
4113 LCL FREIGHT-----	8	-----	-----	-----	8	-----	-----	-----
4119 EMPTY CONTAINERS-----	373	-----	-----	373	-----	-----	-----	-----

EVERETT HARBOR AND SNOHOMISH RIVER, WASH.

SECTION INCLUDED: PORT GARDNER BAY FROM THE MEYERHAEUSER COMPANY THERMO-MECHANICAL MILL, ON THE SOUTH TO PRESTON POINT ON THE NORTH AND INCLUDING THE SNOHOMISH RIVER AND TRIBUTARY WATERS, CONTROLLING DEPTHS: EAST WATERWAY, 33.3 FEET; 14.0 FEET IN PORT GARDNER BAY TO THE SETTLING BASIN; 7.8 FEET IN THE SETTLING BASIN; 6.1 FEET FROM THE SETTLING BASIN TO BURLINGTON NORTHERN RAILROAD; 1.8 FEET FROM BURLINGTON NORTHERN RAILROAD TO HEAD OF WATERWAY AT STEAMBOAT SLOUGH, PROJECT DEPTHS: EAST WATERWAY, 30 FEET; DEEP WATER IN PORT GARDNER BAY TO SETTLING BASIN, 15 FEET; SETTLING BASIN, 20 FEET; FROM THE SETTLING BASIN TO THE GAP, 8 FEET; FROM THE GAP TO THE UPSTREAM SETTLING BASIN, 8 FEET; 40 FEET IN UPSTREAM SETTLING BASIN; 8 FEET TO HEAD OF WATERWAY. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,687,127	1,901,875	4,589,002	1982-----	2,300,986	1,686,001	3,986,987
1978-----	2,824,487	3,239,228	6,063,715	1983-----	2,126,592	1,606,578	3,733,170
1979-----	2,466,941	2,331,705	4,798,646	1984-----	2,139,199	1,628,122	3,767,321
1980-----	2,342,026	2,016,261	4,359,107	1985-----	2,235,514	1,892,754	4,128,268
1981-----	1,879,790	1,421,707	3,301,497	1986-----	2,341,682	3,455,746	5,797,428

* PASSENGERS--8,790.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
TOTAL-----	5,797,428	534,699	1,612,607	9	11,580	1,464,237	589,887	1,584,409
0131 FRESH FRUITS-----	7,774	-----	7,774	-----	-----	-----	-----	-----
0841 CRUDE RUBBER AND ALLIED GUMS-----	1,665	1,665	-----	-----	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	6,477	21	-----	-----	-----	6,456	-----	-----
0912 SHELLFISH, EXCEPT PREPARED-----	77	19	-----	-----	-----	58	-----	-----
1051 ALUMINUM ORES, CONCENTRATES-----	370,063	370,063	-----	-----	-----	-----	-----	-----
1411 LIMESTONE-----	3,713	3,713	-----	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	33,589	14,589	-----	-----	-----	19,000	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	3,163	-----	-----	-----	-----	3,163	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	18	18	-----	-----	-----	-----	-----	-----

SEATTLE, WA, DISTRICT

67

EVERETT HARBOR AND SNOWMISH RIVER, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
2034 VEGETABLES AND PREP, NEC-----	60	60	-----	-----	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	34	34	-----	-----	-----	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	294	294	-----	-----	-----	-----	-----	-----
2311 APPAREL-----	289	289	-----	-----	-----	-----	-----	-----
2411 LOGS-----	1,600,324	22,256	1,578,068	-----	-----	-----	-----	-----
2412 RAFTED LOGS-----	3,455,746	-----	-----	-----	-----	1,318,103	556,605	1,581,038
2413 FUEL WOOD, CHARCOAL, WASTES-----	118	72	46	-----	-----	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	380	-----	-----	-----	-----	-----	370	10
2415 PULPWOOD, LOG-----	9,673	-----	8,325	-----	1,348	-----	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	153,375	95,428	1,100	-----	-----	23,166	31,367	1,614
2421 LUMBER-----	6,092	-----	6,092	-----	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	5	5	-----	-----	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	108	108	-----	-----	-----	-----	-----	-----
2611 PULP-----	4,092	-----	4,092	-----	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	3,569	-----	3,569	-----	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	96	96	-----	-----	-----	-----	-----	-----
2711 PRINTED MATTER-----	1	1	-----	-----	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	11,220	-----	-----	-----	-----	11,220	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	21	-----	21	-----	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	11	11	-----	-----	-----	-----	-----	-----
2841 SOAP-----	4	4	-----	-----	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	37,128	-----	-----	-----	-----	36,295	-----	833
2891 MISCELLANEOUS CHEMICAL PROD-----	7,925	-----	-----	-----	-----	7,925	-----	-----
2914 DISTILLATE FUEL OIL-----	9,151	43	-----	-----	-----	9,108	-----	-----
2915 RESIDUAL FUEL OIL-----	30,333	-----	-----	-----	-----	29,419	-----	914
3011 RUBBER AND MISC PLASTIC PROD-----	138	138	-----	-----	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	174	174	-----	-----	-----	-----	-----	-----
3241 BUILDING CEMENT-----	17,637	17,637	-----	-----	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	5	5	-----	-----	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	148	148	-----	-----	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	70	-----	-----	-----	-----	-----	70	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	2,750	-----	2,750	-----	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	3,234	3,233	1	-----	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	10,056	1,123	3	-----	8,930	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	133	133	-----	-----	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	17	17	-----	-----	-----	-----	-----	-----
3721 AIRCRAFT AND PARTS-----	12	-----	12	-----	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	11	11	-----	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	214	214	-----	-----	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	3,033	3,033	-----	-----	-----	-----	-----	-----
4112 COMMODITIES, NEC-----	3,208	48	58	9	1,302	324	1,475	-----

SNOWMISH CHANNEL, WASH.

SECTION INCLUDED: ENTIRE CHANNEL. CONTROLLING DEPTH: 11.2 FEET. PROJECT DEPTH: 12 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	2,600	1,035,791	1,038,391	1982-----	3,107	697,024	700,131
1978-----	1,805	890,097	891,902	1983-----	1,817	723,557	725,374
1979-----	4,403	1,053,450	1,057,853	1984-----	30,726	827,713	858,439
1980-----	17,459	636,112	653,571	1985-----	12,025	683,981	696,006
1981-----	21,372	776,984	798,356	1986-----	81,678	2,077,899	2,159,577

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	INTERNAL				THROUGH SOUTHBOUND
		INBOUND	OUTBOUND	NORTHBOUND	SOUTHBOUND	
TOTAL-----	2,159,577	153,452	998,727	293,223	712,225	1,950
0911 FRESH FISH, EXCEPT SHELLFISH-----	1,903	1,903				
0912 SHELLFISH, EXCEPT PREPARED-----	150	150				
2412 RAFTED LOGS-----	2,077,899	151,399	921,038	293,223	712,225	14
2611 PULP-----	1,289		1,289			
2914 DISTILLATE FUEL OIL-----	1,936					1,936
4029 WASTE AND SCRAP, NEC-----	76,400		76,400			
TOTAL TON-MILES, 8,959,126.						

Waterborne Commerce of the United States, 1986

ANACORTES HARBOR, WASH.

SECTION INCLUDED: WATER FRONT OF FIDALGO ISLAND FROM BURROWS BAY TO AND INCLUDING THE OIL REFINERY WHARVES ON FIDALGO BAY, CONTROLLING DEPTH: MAIN HARBOR ON GUENES CHANNEL, 33 FEET; CAPSANTO WATERWAY, OUTER WATERWAY 11.8 FEET, INNER WATERWAY 11.8 FEET; ANACORTES NAVIGATION CHANNEL, 16.2 FEET. PROJECT DEPTH: NO PROJECT FOR MAIN HARBOR; CAPSANTO WATERWAY, 12 FEET ANACORTES NAVIGATION CHANNEL, 16 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	8,821,585	146,728	8,968,313	695,552	1982-----	9,346,613	92,627	9,439,240	1,417,412
1978-----	9,787,419	177,343	9,964,762	742,968	1983-----	8,217,977	142,578	8,360,555	1,049,042
1979-----	9,428,491	170,974	9,599,465	864,318	1984-----	8,614,149	35,927	8,650,076	4,895,136
1980-----	9,043,642	122,170	9,165,812	753,148	1985-----	10,165,791	42,518	10,208,309	4,897,248
1981-----	9,623,049	228,033	9,851,082	840,096	1986-----	12,366,078	380,616	12,746,694	3,320,862

ADDITIONAL TRAFFIC

YEAR	GENERAL FERRY								
	FOREIGN			DOMESTIC			TOTAL		
	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS	TONS	VEHICLES	PASSENGERS
1977-----	*	55,218	141,124	*	362,967	554,428	*	418,185	695,552
1978-----	*	48,492	131,014	*	396,974	611,954	*	445,466	742,968
1979-----	*	44,128	126,671	*	452,699	737,647	*	496,827	864,318
1980-----	*	36,386	100,346	*	377,194	652,802	*	413,580	753,148
1981-----	*	55,552	157,470	*	386,356	682,626	*	441,910	840,096
1982-----	*	64,852	245,678	*	447,040	1,171,734	*	511,892	1,417,412
1983-----	*	61,401	157,310	*	442,942	891,732	*	504,343	1,049,042
1984-----	*	126,528	472,554	*	1,684,948	4,422,582	*	1,811,476	4,895,136
1985-----	*	137,990	472,554	*	1,667,060	4,424,694	*	1,805,050	4,897,248
1986-----	*	158,330	386,316	*	1,921,656	3,320,862	*	2,079,988	3,767,178

* NOT REPORTED.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC INTERNAL		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	12,746,694	1,151,851	788,517	7,853,298	1,698,297	396,433	852,142	6,156
0101 COTTON, RAW-----	49		49					
0102 BARLEY AND RYE-----	40	40						
0105 RICE-----	23	23						
0129 FIELD CROPS, NEC-----	645		645					
0141 FRESH AND FROZEN VEGETABLES-----	327	12	315					
0161 ANIMALS AND PRODUCTS, NEC-----	104		104					
0191 MISCELLANEOUS FARM PRODUCTS-----	3		3					
0911 FRESH FISH, EXCEPT SHELLFISH-----	3,059	510	595			1,954		
0912 SHELLFISH, EXCEPT PREPARED-----	519					519		
1121 COAL AND LIGNITE-----	4,493		4,493					
1311 CRUDE PETROLEUM-----	8,250,993	1,040,648		7,210,345				
1411 LIMESTONE-----	4,000	4,000						
1442 SAND, GRAVEL, CRUSHED ROCK-----	4,930	4,410					520	
1451 CLAY-----	140		140					
1492 SULPHUR, DRY-----	30,996		30,996					
1499 NONMETALLIC MINERALS, NEC-----	89	20	69					
2011 MEAT, FRESH, CHILLED, FROZEN-----	83		83					
2015 ANIMAL BY-PRODUCTS, NEC-----	1,020		1,020					
2031 FISH AND SHELLFISH, PREPARED-----	178	23	155					
2034 VEGETABLES AND PREP, NEC-----	8	8						
2039 PREP FRUIT AND VEG JUICE, NEC-----	88	44	44					
2042 ANIMAL FEEDS-----	648		648					
2049 GRAIN MILL PRODUCTS, NEC-----	13	13						
2099 MISCELLANEOUS FOOD PRODUCTS-----	154	24	130					
2211 BASIC TEXTILE PRODUCTS-----	301	141					160	
2311 APPAREL-----	84	84						
2411 LOGS-----	180,592	18,904	161,688					
2412 RAFTED LOGS-----	380,616					309,217	69,479	1,920
2413 FUEL WOOD, CHARCOAL, WASTES-----	22		22					
2421 LUMBER-----	15,614		205		13,489		1,920	
2491 WOOD MANUFACTURES, NEC-----	14	14						
2511 FURNITURE AND FIXTURES-----	527	107					420	
2611 PULP-----	706		706					
2711 PRINTED MATTER-----	14	14						
2819 BASIC CHEMICALS AND PROD, NEC-----	13,340	13,307	33					
2821 PLASTIC MATERIALS-----	19	19						
2879 FERTILIZER AND MATERIALS, NEC-----	40		40					
2891 MISCELLANEOUS CHEMICAL PROD-----	10,625		1	2,692	7,932			
2911 GASOLINE-----	1,060,858	7,615		48,575	857,965	6,213	140,690	
2912 JET FUEL-----	132,543		12,196	7,081	84,300	1,776	27,182	
2914 DISTILLATE FUEL OIL-----	694,431		256,557	81,500	195,237	41,511	114,296	2,370
2915 RESIDUAL FUEL OIL-----	1,227,503	58,858	80,238	503,105	331,616	25,118	223,568	
2917 NAPHTHA, PETROLEUM SOLVENTS-----	59,387				58,882	505		
2920 COKE, PETROLEUM CORE-----	261,416		237,024				24,392	
2921 LIQUEFIED GASES-----	174						174	
2991 PETROLEUM AND COAL PROD, NEC-----	182,452	1			122,654		57,931	1,866
3011 RUBBER AND MISC PLASTIC PROD-----	90	90						
3111 LEATHER AND LEATHER PRODUCTS-----	159	159						
3211 GLASS AND GLASS PRODUCTS-----	166	26					140	

SEATTLE, WA, DISTRICT

69

ANACORTES HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
				RECEIPTS	SHIPMENTS	
3291 MISC NONMETALLIC MINERAL PROD-----	744	124				620
3315 IRON, STEEL SHAPES, EXC SHEET-----	42	42				
3317 IRON AND STEEL PIPE AND TUBE-----	5	5				
3319 IRON AND STEEL PRODUCTS, NEC-----	40		40			
3411 FABRICATED METAL PRODUCTS-----	1,076	1,016				260
3511 MACHINERY, EXCEPT ELECTRICAL-----	24,644	36	4	23,214	20	1,376
3611 ELECTRICAL MACH AND EQUIP-----	270	100	124			
3711 MOTOR VEHICLES, PARTS, EQUIP-----	761	110	11			640
3731 SHIPS AND BOATS-----	16		16			
3811 INSTR, TIME, PHOTO, OPT GOODS-----	36	36				
3911 MISC MANUFACTURED PRODUCTS-----	44	43	1			
4024 PAPER WASTE AND SCRAP-----	67		67			
4029 WASTE AND SCRAP, NEC-----	193,200				9,600	183,600
4112 COMMODITIES, NEC-----	700	625	55			20

BELLINGHAM BAY AND HARBOR, WASH.

SECTION INCLUDED: BELLINGHAM BAY AND CHUCKANUT BAY FROM THE WHARF OF THE OLYMPIC PORTLAND CEMENT COMPANY ON THE NORTH TO AND INCLUDING CHUCKANUT INTERISLAND FERRY SLIP ON THE SOUTH. CONTROLLING DEPTH: WHATCOM CREEK WATERWAY, 8.9 TO 29.5 FEET; SQUALIUM CREEK WATERWAY, 22.4 FEET, FROM DEEP WATER TO TURNING BASIN, 20.3 FEET IN TURNING BASIN, 15.1 FEET FROM STA. 16 + 00 TO 5 + 00; I & J ST. WATERWAY, 11.0 FT. PROJECT DEPTH: WHATCOM CREEK WATERWAY, 18 TO 30 FEET; SQUALIUM CREEK WATERWAY, 26 FEET OVER THE ENTIRE WATERWAY, I & J STREET WATERWAY 18 FEET OVER THE ENTIRE WATERWAY. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977-----	1,639,759	78,658	1,718,417	1982-----	1,790,888	186,888	1,977,776
1978-----	1,496,037	60,789	1,556,826	1983-----	1,239,814	92,663	1,332,477
1979-----	1,839,947	291,707	2,131,654	1984-----	1,169,505	99,934	1,269,439
1980-----	1,824,788	222,563	2,047,351	1985-----	1,289,881	36,997	1,326,878
1981-----	1,263,819	218,166	1,481,985	1986-----	1,713,408	62,462	1,775,870

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	COASTWISE	INTERNAL	
				RECEIPTS	SHIPMENTS	
TOTAL-----	1,775,870	315,314	354,788	115,109	444,031	304,517
0129 FIELD CROPS, NEC-----	22	22				
0131 FRESH FRUITS-----	535	21	514			
0133 COFFEE-----	77	77				
0141 FRESH AND FROZEN VEGETABLES-----	1,181		1,181			
0161 ANIMALS AND PRODUCTS, NEC-----	23		23			
0191 MISCELLANEOUS FARM PRODUCTS-----	15	15				
0841 CRUDE RUBBER AND ALLIED GUMS-----	2		2			
0861 FOREST PRODUCTS, NEC-----	18		18			
0911 FRESH FISH, EXCEPT SHELLFISH-----	36,454	12,791	589		23,074	
0912 SHELLFISH, EXCEPT PREPARED-----	1,002	616	5		381	
1011 IRON ORE AND CONCENTRATES-----	752		752			
1051 ALUMINUM ORES, CONCENTRATES-----	187,719	187,707	12			
1121 COAL AND LIGNITE-----	15,023	15,023				
1451 CLAY-----	3		3			
1491 SALT-----	94,190			94,190		
1494 GYPSUM, CRUDE AND PLASTERS-----	3,500	3,500				
1499 NONMETALLIC MINERALS, NEC-----	121		121			
2011 MEAT, FRESH, CHILLED, FROZEN-----	254		254			
2015 ANIMAL BY-PRODUCTS, NEC-----	198	19	179			
2021 DAIRY PRODUCTS, NEC-----	4	4				
2022 DRIED MILK AND CREAM-----	2,061		2,061			
2031 FISH AND SHELLFISH, PREPARED-----	1,779	1,330	25	424		
2034 VEGETABLES AND PREP, NEC-----	41	41				
2039 PREP FRUIT AND VEG JUICE, NEC-----	23	3	20			
2042 ANIMAL FEEDS-----	2,540	498	2,050			
2049 GRAIN MILL PRODUCTS, NEC-----	672		672			
2061 SUGAR-----	57		57			
2081 ALCOHOLIC BEVERAGES-----	638	638				
2099 MISCELLANEOUS FOOD PRODUCTS-----	434		434			
2111 TOBACCO MANUFACTURES-----	6		6			
2211 BASIC TEXTILE PRODUCTS-----	203	64	139			
2311 APPAREL-----	13	9	4			
2411 LOGS-----	3,640		3,640			
2412 RAFTED LOGS-----	62,462					60,264
2413 FUEL WOOD, CHARCOAL, WASTES-----	7,181	4,640				2,521
2414 TIMBER, POSTS, POLES, PILING-----	30					20
2416 WOOD CHIPS, STAVES, MOLDINGS-----	83,988	83,390				598
2021 LUMBER-----	19,356	158	4,155		15,043	
2431 VENEER, PLYWOOD, WORKED WOOD-----	149	139	10			
2491 WOOD MANUFACTURES, NEC-----	860	3	857			
2511 FURNITURE AND FIXTURES-----	193	191	4			
2611 PULP-----	46,189		46,189			

BELLINGHAM BAY AND HARBOR, WASH.--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2621 STANDARD NEWSPRINT PAPER-----	1,181	-----	1,181	-----	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	944	2	942	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	116	78	38	-----	-----	-----	-----
2711 PRINTED MATTER-----	45	-----	45	-----	-----	-----	-----
2810 SODIUM HYDROXIDE-----	105,358	-----	-----	-----	105,358	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	37	-----	37	-----	-----	-----	-----
2812 DYES, PIGMENT, TANNING MATS-----	14	-----	14	-----	-----	-----	-----
2813 ALCOHOLS-----	2	-----	2	-----	-----	-----	-----
2818 SULPHURIC ACID-----	6,360	-----	-----	-----	6,360	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	277	43	234	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	316	43	273	-----	-----	-----	-----
2822 SYNTHETIC RUBBER-----	17	-----	17	-----	-----	-----	-----
2823 SYNTHETIC (MAN-MADE) FIBERS-----	6	-----	6	-----	-----	-----	-----
2831 DRUGS-----	7	-----	7	-----	-----	-----	-----
2841 SOAP-----	43,644	-----	43,644	-----	-----	-----	-----
2851 PAINTS-----	121	31	90	-----	-----	-----	-----
2861 GUM AND WOOD CHEMICALS-----	176,056	-----	-----	-----	66,196	-----	109,860
2876 INSECTICIDES, DISINFECTANTS-----	22	-----	22	-----	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	33,566	52	33	14,301	19,200	-----	-----
2911 GASOLINE-----	92,650	-----	-----	-----	76,355	-----	-----
2912 JET FUEL-----	63,918	-----	30,944	-----	32,974	16,295	-----
2914 DISTILLATE FUEL OIL-----	298,610	-----	191,136	-----	62,287	10,764	34,423
2915 RESIDUAL FUEL OIL-----	21,022	-----	-----	-----	21,022	-----	-----
2916 LUBRICATING OILS AND GREASES-----	40	-----	40	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	2,217	2,212	5	-----	-----	-----	-----
2920 COKE, PETROLEUM COKE-----	6,834	-----	6,834	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	40,417	-----	-----	6,194	27,223	7,000	-----
3011 RUBBER AND MISC PLASTIC PROD-----	42	23	19	-----	-----	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	136	2	134	-----	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	43	2	41	-----	-----	-----	-----
3241 BUILDING CEMENT-----	107,633	-----	-----	-----	12,013	-----	95,620
3251 STRUCTURAL CLAY PRODUCTS-----	53	55	8	-----	-----	-----	-----
3281 CUT STONE AND STONE PRODUCTS-----	1	-----	1	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	50	33	17	-----	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	779	779	-----	-----	-----	-----	-----
3316 IRON AND STEEL PLATES, SHEETS-----	1	-----	1	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	162	154	8	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	5	-----	5	-----	-----	-----	-----
3321 NONFERROUS METALS, NEC-----	121	-----	121	-----	-----	-----	-----
3322 COPPER ALLOYS, UNWORKED-----	26	24	2	-----	-----	-----	-----
3323 LEAD AND ZINC, UNWORKED-----	172	24	148	-----	-----	-----	-----
3324 ALUMINUM AND ALLOYS, UNWORKED-----	11,489	-----	11,489	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	250	166	82	-----	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	272	115	157	-----	-----	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	279	162	117	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	92	90	2	-----	-----	-----	-----
3731 SHIPS AND BOATS-----	45	44	1	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	18	3	15	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	16	1	15	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	40	7	33	-----	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	186	-----	186	-----	-----	-----	-----
4012 NONFERROUS METAL SCRAP-----	141	-----	141	-----	-----	-----	-----
4022 TEXTILE WASTE, SCRAP, SWEEP-----	132	-----	132	-----	-----	-----	-----
4024 PAPER WASTE AND SCRAP-----	2,106	-----	2,106	-----	-----	-----	-----
4029 WASTE AND SCRAP, NEC-----	183,600	-----	-----	-----	-----	183,600	-----
4112 COMMODITIES, NEC-----	527	250	277	-----	-----	-----	-----

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
BLAINE HARBOR, WASH.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	7,027	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	316	-----	-----
	TOTAL-----	7,343	-----	-----
COLUMBIA RIVER BETWEEN HEVATCHEE AND KETTLE FALLS, WASH.-----	NO COMMERCE REPORTED			
FLATHEAD LAKE, MONT.-----	NO COMMERCE REPORTED			
HOQUIAM RIVER, WASH.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	313	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----
	2412 RAFTED LOGS-----	550	-----	-----
	2861 GUM AND WOOD CHEMICALS-----	5,180	-----	-----
	TOTAL-----	6,044	6,598	-----
KOOTENAI RIVER, IDAHO AND MONT.-----	NO COMMERCE REPORTED			
NEAH BAY, WASH.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	2,040	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	41	-----	-----
	TOTAL-----	2,081	-----	-----
QUILLAYUTE RIVER, WASH.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	429	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	1	-----	-----
	TOTAL-----	430	430	-----
SKAGIT RIVER, WASH.-----	2412 RAFTED LOGS-----	140,806	-----	-----
	4029 WASTE AND SCRAP, NEC-----	66,800	-----	-----
	TOTAL-----	207,606	2,566,872	-----
STILLAGUAMISH RIVER, WASH.-----	NO COMMERCE REPORTED			
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WASH.-----	2412 RAFTED LOGS-----	20	-----	-----
	2413 FUEL WOOD, CHARCOAL, WASTES-----	7,613	-----	-----
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	4,057	-----	-----
	TOTAL-----	11,690	11,690	291
WILLAPA RIVER AND HARBOR, AND NASELLE RIVER, WASH.-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	761	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	2,935	-----	-----
	TOTAL-----	3,696	42,309	-----
NONPROJECT				
COEUR D'ALENE LAKE AND ST. JOE RIVER, IDAHO-----	2412 RAFTED LOGS-----	629,449	13,523,273	-----
OTHER PUGET SOUND AREA PORTS, WASH. (NET)-----	0103 CORN-----	10	-----	-----
	0129 FIELD CROPS, NEC-----	184	-----	-----
	0131 FRESH FRUITS-----	70	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	372	-----	-----
	0161 ANIMALS AND PRODUCTS, NEC-----	5	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	3	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	1,231	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	367	-----	-----
	1051 ALUMINUM DRES, CONCENTRATES-----	233,987	-----	-----
	1311 CRUDE PETROLEUM-----	12,858,053	-----	-----
	1412 BUILDING STONE, UNWORKED-----	345	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	3,219,208	-----	-----
	1451 CLAY-----	104,890	-----	-----
	1490 GYPSUM, CRUDE AND PLASTERS-----	40	-----	-----
	1499 NONMETALLIC MINERALS, NEC-----	50,967	-----	-----
	1911 DRYANCE AND ACCESSORIES-----	18	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	98	-----	-----
	2015 ANIMAL BY-PRODUCTS, NEC-----	1,172	-----	-----
	2021 DAIRY PRODUCTS, NEC-----	16	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	90	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	483	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	99	-----	-----
	2041 WHEAT FLOUR AND SEMOLINA-----	486	-----	-----
	2042 ANIMAL FEEDS-----	2,031	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	12	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	220	-----	-----
	2091 VEGETABLE OILS, MARG, SHORT-----	84	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	197	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	176	-----	-----
	2311 APPAREL-----	8	-----	-----
	2411 LOGS-----	913	-----	-----
	2412 RAFTED LOGS-----	1,081,060	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	8,976	-----	-----
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	15,147	-----	-----
	2421 LUMBER-----	5,308	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	26	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	936	-----	-----
	2511 FURNITURE AND FIXTURES-----	447	-----	-----
	2611 PULP-----	173	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	8,593	-----	-----
	2631 PAPER AND PAPERBOARD-----	19	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	40	-----	-----
	2711 PRINTED MATTER-----	3	-----	-----
	2812 DYES, PIGMENT, TANNING MATS-----	2	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	201,143	-----	-----
	2821 PLASTIC MATERIALS-----	114	-----	-----
	2841 SOAP-----	104	-----	-----

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
NONPROJECT--CONTINUED				
OTHER PUJET SOUND AREA PORTS, WASH. (NET) (CONTINUED)-----				
	2851 PAINTS-----	24	-----	-----
	2876 INSECTICIDES, DISINFECTANTS-----	5	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	9	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	219	-----	-----
	2911 GASOLINE-----	255,030	-----	-----
	2912 JET FUEL-----	345,800	-----	-----
	2914 DISTILLATE FUEL OIL-----	661,445	-----	-----
	2915 RESIDUAL FUEL OIL-----	897,276	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	76,944	-----	-----
	2917 NAPHTHA, PETROLEUM SOLVENTS-----	3,166	-----	-----
	2921 LIQUEFIED GASES-----	91,163	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	42,279	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	7	-----	-----
	3111 LEATHER AND LEATHER PRODUCTS-----	111	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	164	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	1,216	-----	-----
	3316 IRON AND STEEL PLATES, SHEETS-----	92	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	1,300	-----	-----
	3318 FERROALLOYS-----	39	-----	-----
	3321 NONFERROUS METALS, NEC-----	170	-----	-----
	3322 COPPER ALLOYS, UNWORKED-----	21	-----	-----
	3324 ALUMINUM AND ALLOYS, UNWORKED-----	557	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	872	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,607	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	74	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	647	-----	-----
	3721 AIRCRAFT AND PARTS-----	9	-----	-----
	3731 SHIPS AND BOATS-----	14	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	31	-----	-----
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	29	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	96	-----	-----
	4011 IRON AND STEEL SCRAP-----	75	-----	-----
	4012 NONFERROUS METAL SCRAP-----	545	-----	-----
	4024 PAPER WASTE AND SCRAP-----	447	-----	-----
	4029 WASTE AND SCRAP, NEC-----	159,230	-----	-----
	4112 COMMODITIES, NEC-----	2,069	-----	-----
	9999 DEPARTMENT OF DEFENSE AND SCI-----	101	-----	-----
	TOTAL-----	20,340,790	-----	20,274,645

ALASKA DISTRICT

73

KETCHIKAN HARBOR, ALASKA

SECTION INCLUDED: TONGASS NARROWS FROM POINT HIGGINS ON THE NORTH TO MOUNTAIN POINT ON THE SOUTH AND INCLUDING HERRING BAY ON GEORGE INLET. CONTROLLING DEPTH: MAIN HARBOR, ADEQUATE; SMALL BOAT BASINS, KETCHIKAN CREEK, 10.0 FEET; BAR POINT, 15 FEET. PROJECT DEPTH: NO PROJECT DEPTH FOR MAIN HARBOR; SMALL BOAT BASINS, 10 AND 15 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL FERRY VEHICLES	FERRY PASSENGERS
1977-----	1,139,137	826,589	1,965,726	346,708	64,345	346,708
1978-----	1,293,351	879,483	1,972,834	325,836	40,733	325,836
1979-----	1,700,642	501,375	2,202,017	313,168	58,793	313,168
1980-----	1,895,316	871,857	2,767,173	371,930	80,053	371,930
1981-----	1,455,444	924,051	1,879,495	382,727	82,018	382,727
1982-----	1,473,009	292,010	1,765,019	393,573	82,825	393,573
1983-----	1,442,441	350,510	1,792,951	406,969	90,030	406,969
1984-----	1,516,027	175,669	1,691,696	704,557	153,163	704,557
1985-----	1,799,590	-----	1,799,590	625,161	129,232	625,161
1986-----	1,545,877	526,125	2,072,002	471,073	110,235	471,073

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	INTERNAL				
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS	
TOTAL-----	2,072,002	56,457	1,034,547	247,278	46,066	618,386	69,018	250
0191 MISCELLANEOUS FARM PRODUCTS-----	952	-----	-----	952	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	7,536	-----	7,514	22	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	1,800	-----	-----	-----	1,800	-----	-----	-----
1491 SALT-----	659	-----	-----	659	-----	-----	-----	-----
1492 SULPHUR, DRY-----	8,642	-----	-----	8,445	-----	-----	197	-----
2031 FISH AND SHELLFISH, PREPARED-----	4,110	-----	1,525	-----	2,555	30	-----	-----
2049 GRAIN MILL PRODUCTS, NEC-----	23	-----	23	-----	-----	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	65	4	-----	61	-----	-----	-----	-----
2094 GROCERIES-----	2,648	-----	-----	2,648	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	16,845	-----	-----	10,586	6,229	30	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	146	-----	18	125	5	-----	-----	-----
2411 LOGS-----	867,229	54,166	812,924	54	85	-----	-----	-----
2412 RAFTED LOGS-----	526,125	-----	-----	-----	-----	526,125	-----	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	85,482	-----	-----	-----	-----	85,482	-----	-----
2421 LUMBER-----	84,209	21	78,392	5,507	257	-----	-----	32
2431 VENEER, PLYWOOD, WORKED WOOD-----	23	-----	-----	23	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	7,174	-----	6,977	163	-----	-----	-----	34
2511 FURNITURE AND FIXTURES-----	956	-----	-----	749	202	7	-----	-----
2611 PULP-----	153,920	-----	126,086	-----	27,834	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	3,013	-----	-----	1,248	1,765	-----	-----	-----
2810 SODIUM HYDROXIDE-----	29,600	-----	-----	29,600	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	1,938	-----	-----	1,803	7	-----	128	-----
2821 PLASTIC MATERIALS-----	16	-----	12	4	-----	-----	-----	-----
2831 DRUGS-----	19	-----	19	-----	-----	-----	-----	-----
2841 SOAP-----	90	-----	-----	90	-----	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	31	-----	-----	30	-----	1	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	8,103	-----	-----	7,899	3	62	139	-----
2911 GASOLINE-----	41,350	-----	-----	26,315	-----	-----	15,035	-----
2912 JET FUEL-----	9,294	-----	-----	9,294	-----	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	119,414	-----	-----	71,565	-----	-----	47,849	-----
2915 RESIDUAL FUEL OIL-----	14,180	-----	-----	13,414	-----	-----	766	-----
2916 LUBRICATING OILS AND GREASES-----	28,398	-----	-----	28,398	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	629	269	-----	560	-----	-----	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	34	-----	-----	34	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	1,442	-----	1	1,385	56	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	473	-----	-----	420	53	-----	-----	-----
3241 BUILDING CEMENT-----	3,703	1,000	-----	2,702	-----	-----	1	-----
3291 MISC NONMETALLIC MINERAL PROD-----	949	910	-----	5	-----	-----	-----	34
3315 IRON, STEEL SHAPES, EXC SHEET-----	350	-----	-----	350	-----	-----	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	203	-----	-----	203	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	11,827	4	121	9,928	1,774	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	16,108	53	546	4,157	1,962	4,732	4,558	100
3611 ELECTRICAL MACH AND EQUIP-----	546	1	-----	545	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,573	1	193	1,823	266	100	170	20
3731 SHIPS AND BOATS-----	44	5	-----	31	8	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	37	-----	-----	37	-----	-----	-----	-----
3811 INSTR, TIME, PHOTO, OPT GOODS-----	40	-----	40	-----	-----	-----	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	1,716	-----	-----	1,703	13	-----	-----	-----
4011 IRON AND STEEL SCRAP-----	1,121	-----	-----	-----	1,121	-----	-----	-----
4112 COMMODITIES, NEC-----	5,632	23	156	3,541	1,720	17	175	-----
4119 EMPTY CONTAINERS-----	181	-----	-----	-----	151	-----	-----	30

Waterborne Commerce of the United States, 1986

WRANGELL HARBOR, ALASKA

SECTION INCLUDED: SHORELINE OF WRANGELL ISLAND FROM THE AIRPLANE LANDING NEAR THE BASE OF POINT SHEKSTI TO POINT HIGHFIELD ON THE NORTH. CONTROLLING DEPTH: MAIN AND INNER HARBOR 10 FEET. PROJECT DEPTHS: BOTH MOORING BASINS, 10 FEET AT MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC GENERAL VEHICLES	FERRY PASSENGERS
1977	404,556	225,172	629,728	13,545	3,355	13,545
1978	302,127	204,695	506,822	15,076	3,502	15,076
1979	308,884	-----	308,884	7,701	1,713	7,701
1980	446,735	103,703	550,438	16,793	3,878	16,793
1981	318,966	323,727	642,693	15,381	3,683	15,381
1982	553,765	41,531	595,296	17,014	4,028	17,014
1983	333,173	253,441	586,614	16,261	3,966	16,261
1984	223,368	30,544	253,962	22,029	4,228	22,029
1985	272,934	91,688	364,622	5,044	-----	5,044
1986	380,198	6,095	386,293	29,944	6,436	29,944

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		COASTWISE		DOMESTIC		LOCAL
		IMPORTS	EXPORTS	RECEIPTS	SHIPMENTS	INTERNAL		
						RECEIPTS	SHIPMENTS	
TOTAL-----	386,293	9,453	153,749	13,805	10,183	25,368	173,730	5
0191 MISCELLANEOUS FARM PRODUCTS-----	78	-----	-----	78	-----	-----	-----	-----
0911 FRESH FISH, EXCEPT SHELLFISH-----	116	-----	116	-----	-----	-----	-----	-----
1442 SAND, GRAVEL, CRUSHED ROCK-----	12,841	-----	-----	126	-----	12,715	-----	-----
1491 SALT-----	57	-----	-----	57	-----	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	1,838	-----	16	-----	1,822	-----	-----	-----
2094 GROCERIES-----	382	-----	-----	382	-----	-----	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	3,493	-----	-----	3,463	-----	-----	30	-----
2211 BASIC TEXTILE PRODUCTS-----	6	-----	-----	6	-----	-----	-----	-----
2411 LOGS-----	42,803	3,804	38,999	-----	-----	-----	-----	-----
2412 RAFTED LOGS-----	6,095	-----	-----	-----	-----	3,939	2,156	-----
2414 TIMBER, POSTS, POLES, PILING-----	13	-----	-----	13	-----	-----	-----	-----
2415 PULPWOOD, LOG-----	9,019	5,649	-----	-----	-----	-----	3,370	-----
2416 WOOD CHIPS, STAVES, MOLDINGS-----	166,403	-----	-----	-----	-----	-----	166,483	-----
2421 LUMBER-----	122,950	-----	114,613	1,416	6,929	-----	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	7	-----	-----	7	-----	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	445	-----	-----	445	-----	-----	-----	-----
2511 FURNITURE AND FIXTURES-----	117	-----	-----	95	22	-----	-----	-----
2631 PAPER AND PAPERBOARD-----	5	-----	-----	5	-----	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	26	-----	-----	26	-----	-----	-----	-----
2711 PRINTED MATTER-----	16	-----	-----	16	-----	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	248	-----	-----	248	-----	-----	-----	-----
2821 PLASTIC MATERIALS-----	64	-----	-----	64	-----	-----	-----	-----
2851 PAINTS-----	15	-----	-----	7	6	2	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	7	-----	-----	-----	-----	7	-----	-----
2911 GASOLINE-----	1,416	-----	-----	34	-----	1,382	-----	-----
2914 DISTILLATE FUEL OIL-----	4,948	-----	-----	-----	-----	4,948	-----	-----
2915 RESIDUAL FUEL OIL-----	77	-----	-----	-----	-----	77	-----	-----
2916 LUBRICATING OILS AND GREASES-----	50	-----	-----	50	-----	-----	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	2,000	-----	-----	2,000	-----	-----	-----	-----
2921 LIQUEFIED GASES-----	23	-----	-----	23	-----	-----	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	142	-----	-----	142	-----	-----	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	52	-----	-----	49	3	-----	-----	-----
3241 BUILDING CEMENT-----	1,208	-----	-----	1,208	-----	-----	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	50	-----	-----	50	-----	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	289	-----	-----	289	-----	-----	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	20	-----	-----	20	-----	-----	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2,305	-----	-----	2,189	116	-----	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	5,110	-----	2	461	739	2,287	1,616	5
3611 ELECTRICAL MACH AND EQUIP-----	84	-----	-----	84	-----	-----	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	670	-----	-----	220	441	9	-----	-----
3731 SHIPS AND BOATS-----	2	-----	-----	2	-----	-----	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	76	-----	-----	1	-----	-----	75	-----
3911 MISC MANUFACTURED PRODUCTS-----	205	-----	-----	194	11	-----	-----	-----
4112 COMMODITIES, NEC-----	343	-----	3	335	3	2	-----	-----
4119 EMPTY CONTAINERS-----	91	-----	-----	-----	91	-----	-----	-----

WRANGELL NARROWS, ALASKA

SECTION INCLUDED: ENTIRE 24 MILE LONG WATERWAY. CONTROLLING DEPTH: 26 FEET IN THE ANCHORAGE BASIN AND 24 FEET IN THE AUTHORIZED CHANNEL WITH EXCEPTION OF THE AREA NEAR COLORADO REEF WHERE A DEPTH OF 21.6 FEET EXISTS. PROJECT DEPTH: 27 FEET THROUGH PETERSBURG BAY; 26 FEET IN ANCHORAGE BASIN, VICINITY OF MILE 14; ALL OTHER, 24 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977	631,073	83,431	714,504	1982	545,367	16,426	561,793
1978	569,631	388,424	958,055	1983	543,913	-----	543,913
1979	583,939	21,263	605,202	1984	687,801	103,534	791,335
1980	710,908	299,157	1,010,065	1985	668,980	92,218	761,198
1981	595,969	148,998	744,967	1986	542,956	4,782	547,738

* PASSENGERS--64,413.

ALASKA DISTRICT

75

WRANGELL NARROWS, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE				INTERNAL			
		RECEIPTS	SHIPMENTS	UPBOUND	THROUGH DOWNBOUND	INBOUND	OUTBOUND	UPBOUND	THROUGH DOWNBOUND
TOTAL-----	567,738	12,220	18,033	207,810	55,218	9,607	10,765	225,125	8,960
3122 HAY AND FODDER-----	272			272					
0131 FRESH FRUITS-----	25			20	5				
0141 FRESH AND FROZEN VEGETABLES-----	24			19	5				
0191 MISCELLANEOUS FARM PRODUCTS-----	116	44		72					
0861 FOREST PRODUCTS, NEC-----	170			170					
0911 FRESH FISH, EXCEPT SHELLFISH-----	567	15	273	125	154				
1442 SAND, GRAVEL, CRUSHED ROCK-----	221	21		115	85				
1451 CLAY-----	15			15					
1491 SALT-----	748	264		468	18				
1492 SULPHUR, DRY-----	8,690			8,293	200			197	
1499 NONMETALLIC MINERALS, NEC-----	1			1					
2611 MEAT, FRESH, CHILLED, FROZEN-----	22	1		1	12				
2031 FISH AND SHELLFISH, PREPARED-----	22,762		7,710	997	14,075				
2039 PREP FRUIT AND VEG JUICE, NEC-----	26			6	20				
2042 ANIMAL FEEDS-----	254			254					
2049 GRAIN MILL PRODUCTS, NEC-----	5			5					
2081 ALCOHOLIC BEVERAGES-----	5,921	24		5,897					
2094 GROCERIES-----	24,286	1,242		23,017	27				
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,950	819	40	2,091					
2211 BASIC TEXTILE PRODUCTS-----	29	9		20					
2412 RAFTED LOGS-----	4,782							2,156	2,626
2414 TIMBER, POSTS, POLES, PILING-----	29			23	6				
2415 PULPWOOD, LOG-----	16,680			1,348				15,332	
2416 WOOD CHIPS, STAVES, MOLDINGS-----	171,145						10,345	160,800	
2421 LUMBER-----	16,046	2,048	8,724	5,155	119				
2431 VENEER, PLYWOOD, WORKED WOOD-----	1,207	26		1,174	7				
2491 WOOD MANUFACTURES, NEC-----	4,192	87		3,541	524				
2511 FURNITURE AND FIXTURES-----	1,207	98	38	742	322				7
2611 PULP-----	30,294				30,294				
2621 STANDARD NEWSPRINT PAPER-----	118			118					
2691 PULP AND PAPER PRODUCTS, NEC-----	1,230	68		1,125	37				
2711 PRINTED MATTER-----	32			16	16				
2810 SODIUM HYDROXIDE-----	22,711			22,711					
2819 BASIC CHEMICALS AND PROD, NEC-----	1,394	286		964	16			128	
2821 PLASTIC MATERIALS-----	17			17					
2841 SOAP-----	145			145					
2851 PAINTS-----	330			327		1			2
2871 NITROGENOUS CHEM FERTILIZERS-----	121			121					
2879 FERTILIZER AND MATERIALS, NEC-----	483	9		483		3		28	
2891 MISCELLANEOUS CHEMICAL PROD-----	10,613			8,746	23			1,714	130
2911 GASOLINE-----	17,155	85		3,499	684	8		11,170	832
2912 JET FUEL-----	1,581	226		1,355					
2914 DISTILLATE FUEL OIL-----	50,782	412		9,638	148	8,508		29,214	2,862
2915 RESIDUAL FUEL OIL-----	14,297			13,426	174	157		494	46
2916 LUBRICATING OILS AND GREASES-----	49,571	68		49,503					
2921 LIQUEFIED GASES-----	121			112	9				
2951 ASPHALT BUILDING MATERIALS-----	104			99	5				
2991 PETROLEUM AND COAL PROD, NEC-----	425	43	9	322	51				
3011 RUBBER AND MISC PLASTIC PROD-----	78	28		50					
3211 GLASS AND GLASS PRODUCTS-----	28			20					
3241 BUILDING CEMENT-----	3,191	1,959	1	1,083	148				
3251 STRUCTURAL CLAY PRODUCTS-----	100			71	29				
3271 LIME-----	41			41					
3281 CUT STONE AND STONE PRODUCTS-----	144			144					
3291 MISC NONMETALLIC MINERAL PROD-----	5,105	172		4,910	23				
3314 IRON AND STEEL PRIMARY FORMS-----	3	3							
3315 IRON, STEEL SHAPES, EXC SHEET-----	143			143					
3317 IRON AND STEEL PIPE AND TUBE-----	134	1		131	2				
3319 IRON AND STEEL PRODUCTS, NEC-----	92	2		71	20				
3322 COPPER ALLOYS, UNWORKED-----	15	1		14					
3411 FABRICATED METAL PRODUCTS-----	6,259	2,477	430	2,772	536				44
3511 MACHINERY, EXCEPT ELECTRICAL-----	9,401	307	522	1,235	1,158	30	420	3,489	2,740
3611 ELECTRICAL MACH AND EQUIP-----	248	106	2	91	49				
3711 MOTOR VEHICLES, PARTS, EQUIP-----	3,209	353	89	1,638	800			200	134
3731 SHIPS AND BOATS-----	236	4		140	92				
3791 MISC TRANSPORTATION EQUIPMENT-----	461	2		274	85			100	
3911 MISC MANUFACTURED PRODUCTS-----	279	248	6	23	2				
4011 IRON AND STEEL SCRAP-----	481			481					
4112 COMMODITIES, NEC-----	33,156	662	184	28,337	3,833			103	37
4113 LCL FREIGHT-----	8			8					
4119 EMPTY CONTAINERS-----	989		10	32	947				
TOTAL TON-MILES, 12,909,474.									

WAKE HARBOR, ALASKA

SECTION INCLUDED: BASIN 7-ACRE BERTHING AREA, 15 FEET DEEP, INCLOSED BY A 1,580-FOOT WEST ROCK BREAKWATER AND A 900-FOOT SOUTH ROCK BREAKWATER.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	3,883	4,822	1982-----	5,769	7,378
1978-----	2,702	4,985	1983-----	121,544	8,084
1979-----	5,947	5,376	1984-----	74,654	7,135
1980-----	61,862	4,852	1985-----	94,898	
1981-----	47,103	7,617	1986-----	274,758	11,104

Waterborne Commerce of the United States, 1986

KAKE HARBOR, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		EXPORTS	IMPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	274,758	45,498	1,287	1,090	203,533	23,350	
0911 FRESH FISH, EXCEPT SHELLFISH-----	154			154			
2031 FISH AND SHELLFISH, PREPARED-----	896			896			
2411 LOGS-----	45,498	45,498					
2412 RAFTED LOGS-----	223,286					201,455	21,831
2691 MISCELLANEOUS CHEMICAL PROD-----	44					44	
2911 GASOLINE-----	96					96	
2914 DISTILLATE FUEL OIL-----	1,128					1,128	
3511 MACHINERY, EXCEPT ELECTRICAL-----	2,327					808	1,519
4112 COMMODITIES, NEC-----	1,327		1,287	40			

SITKA HARBOR, ALASKA

SECTION INCLUDED: FROM THE ALASKA LUMBER & PULP CO. MILL IN SILVER BAY ON THE SOUTH TO STARRIGAVEN BAY ON THE NORTH INCLUDING THE SITKA CENTRAL WATERFRONT AND JAPOVSKI ISLAND. CONTROLLING DEPTH: 22 FEET AT MLLN IN WESTERN CHANNEL AND 11 FEET IN SMALL BOAT BASIN. PROJECT DEPTH: 22 FEET IN WESTERN CHANNEL; 10 FEET IN SMALL BOAT BASIN AND APPROACH CHANNEL. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS
1977-----	551,405	3,889	555,294	16,757	1982-----	395,356		395,356	26,996
1978-----	504,184	384,143	888,327	20,420	1983-----	508,119		508,119	35,376
1979-----	520,827		520,827	11,666	1984-----	594,203	305,556	899,759	38,605
1980-----	653,229	361,146	1,014,375	32,196	1985-----	378,280	314,788	693,068	65,204
1981-----	534,276	389,835	924,111	33,889	1986-----	582,835	133,716	716,551	64,391

ADDITIONAL TRAFFIC

YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY		YEAR	CAR FERRY-RAILROAD CARS			GENERAL FERRY	
	EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS		EMPTY	LOADED	TOTAL	VEHICLES	PASSENGERS
1977-----			*	4,053	16,757	1982-----			*	4,702	26,996
1978-----			*	4,674	20,420	1983-----			*	6,657	35,376
1979-----			*	2,276	11,666	1984-----			*	7,050	38,605
1980-----			*	6,092	32,196	1985-----			*		65,204
1981-----			*	6,455	33,889	1986-----			*	11,940	64,391

* CARGO REPORTED AS FREIGHT TRAFFIC.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	716,551	98,552	110,370	143,619	39,360	324,252	398
0911 FRESH FISH, EXCEPT SHELLFISH-----	9,054		8,954	50	50		
1442 SAND, GRAVEL, CRUSHED ROCK-----	6,125	6,125					
1491 SALT-----	23			23			
1492 SULPHUR, DRY-----	8,690			8,293	200	197	
1499 NONMETALLIC MINERALS, NEC-----	1			1			
2011 MEAT, FRESH, CHILLED, FROZEN-----	15			15			
2031 FISH AND SHELLFISH, PREPARED-----	5,911		99		5,765		47
2039 PREP FRUIT AND VEG JUICE, NEC-----	24			24			
2042 ANIMAL FEEDS-----	16			16			
2081 ALCOHOLIC BEVERAGES-----	140			140			
2094 GROCERIES-----	4,496			4,496			
2099 MISCELLANEOUS FOOD PRODUCTS-----	2,225			2,173	52		
2412 RAFTED LOGS-----	133,716					133,716	
2415 PULPHOOD, LOG-----	128,862	91,626		16,849		20,387	
2416 WOOD CHIPS, STAVES, MOULDINGS-----	160,800					160,800	
2421 LUMBER-----	1,576			1,405	121		50
2431 VENEER, PLYWOOD, WORKED WOOD-----	246						
2491 WOOD MANUFACTURES, NEC-----	1,351			1,322	29		
2511 FURNITURE AND FIXTURES-----	180			159	12		9
2611 PULP-----	131,608		101,314		30,294		
2621 STANDARD NEWSPRINT PAPER-----	13			13			
2691 PULP AND PAPER PRODUCTS, NEC-----	665			665			
2810 SODIUM HYDROXIDE-----	22,711			22,711			
2819 BASIC CHEMICALS AND PROD, NEC-----	1,035			885		128	22
2841 SOAP-----	130			130			
2851 PAINTS-----	8			8			
2871 NITROGENOUS CHEM FERTILIZERS-----	62						62
2879 FERTILIZER AND MATERIALS, NEC-----	132			132			
2891 MISCELLANEOUS CHEMICAL PROD-----	8,692			8,692		189	
2911 GASOLINE-----	3,178			1,661		1,517	
2912 JET FUEL-----	1,769			1,769			

ALASKA DISTRICT

77

SITKA HARBOR, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
2914 DISTILLATE FUEL OIL	11,028			4,120		6,853	55
2915 RESIDUAL FUEL OIL	11,342			10,744	174	424	
2916 LUBRICATING OILS AND GREASES	49,180			49,180			
2951 ASPHALT BUILDING MATERIALS	31			30	1		
2991 PETROLEUM AND COAL PROD, NEC	314			314			
3011 RUBBER AND PLASTIC PROD	31	1		30			
3241 BUILDING CEMENT	1,382	800		582			
3251 STRUCTURAL CLAY PRODUCTS	5			5			
3291 MISC NONMETALLIC MINERAL PROD	1,105			1,086	19		
3315 IRON, STEEL SHAPES, EAC SHEET	8			8			
3317 IRON AND STEEL PIPE AND TUBE	19			8			13
3319 IRON AND STEEL PRODUCTS, NEC	5			5			
3411 FABRICATED METAL PRODUCTS	952			809	66	13	44
3511 MACHINERY, EXCEPT ELECTRICAL	452			251	117	25	59
3611 ELECTRICAL MACH AND EQUIP	5			5			
3711 MOTOR VEHICLES, PARTS, EQUIP	435			360	38		37
3731 SHIPS AND BOATS	43			36	7		
3791 MISC TRANSPORTATION EQUIPMENT	48			47	1		
3911 MISC MANUFACTURED PRODUCTS	3			3			
4011 IRON AND STEEL SCRAP PRODUCTS	276				276		
4112 COMMODITIES, NEC	6,063		3	4,120	1,937		
4119 EMPTY CONTAINERS	181				181		

SERGIUS AND WHITESTONE NARROWS, ALASKA

SECTION INCLUDES CHANNELS THROUGH SERGIUS AND WHITESTONE NARROWS. CONTROLLING DEPTH: PROJECT DEPTH AVAILABLE EXCEPT FOR PINNACLES TO 23.5 FEET AT WEST FRANCIS ROCK (SERGIUS NARROWS). PROJECT DEPTH: 24 FEET.

COMPARATIVE STATEMENT OF TRAFFIC

(SHORT TONS)

YEAR	VESSEL TRAFFIC	RAFTED	TOTAL	YEAR	VESSEL TRAFFIC	RAFTED	TOTAL
1977	578,571	3,689	382,460	1982	261,131		261,131
1978	328,883	384,143	713,026	1983	248,334		248,334
1979	554,119		354,119	1984	365,690	261,456	627,146
1980	540,676	361,146	901,824	1985	297,993	314,768	612,761
1981	334,072	221,407	555,479	1986	385,089	133,716	518,805

* PASSENGERS--26,853.

FREIGHT TRAFFIC, 1986

DOMESTIC

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE THROUGH		INTERNAL THROUGH	
		NORTHBOUND	SOUTHBOUND	NORTHBOUND	SOUTHBOUND
TOTAL	518,805	50,990	134,682	7,155	325,978
0131 FRESH FRUITS	18	9	9		
0141 FRESH AND FROZEN VEGETABLES	14	7	7		
0911 FRESH FISH, EXCEPT SHELLFISH	136	43	93		
1402 SAND, GRAVEL, CRUSHED ROCK	212	106	106		
1491 SALT	607	312	295		
1492 SULPHUR, CRUDE	8,690	200	8,293		197
1499 NONMETALLIC MINERALS, NEC	1		1		
2011 MEAT, FRESH, CHILLED, FROZEN	14	13	1		
2031 FISH AND SHELLFISH, PREPARED	13,485	9,694	3,744	47	
2039 PREP FRUIT AND VEG JUICE, NEC	20	20			
2042 ANIMAL FEEDS	24	8	16		
2081 ALCOHOLIC BEVERAGES	168	14	154		
2091 SPICES	6,006	755	5,251		
2099 MISCELLANEOUS FOOD PRODUCTS	580	38	542		
2412 RAFTED LOGS	133,716				133,716
2414 TIMBER, PULPS, POLES, PILING	12	6	6		
2415 PULPWOOD, LOG	16,680		1,348		15,332
2416 WOOD CHIPS, STAVES, HOLDINGS	160,800				160,800
2421 LUMBER	2,001	438	1,513	50	
2431 VENEER, PLYWOOD, WORKED WOOD	310	32	278		
2491 WOOD MANUFACTURES, NEC	1,707	842	865		
2511 FURNITURE AND FIXTURES	619	255	341	16	7
2611 PULP	30,294	30,294			
2691 PULP AND PAPER PRODUCTS, NEC	884	37	647		
2711 PRINTED MATTER	32	16	16		
2810 SODIUM HYDROXIDE	22,711		22,711		
2819 BASIC CHEMICALS AND PROD, NEC	1,067	16	901	22	128
2841 SOAP	130		130		
2851 PAINTS	25	7	15		
2871 NITROGENOUS CHEM FERTILIZERS	62			62	
2879 FERTILIZER AND MATERIALS, NEC	144	6	138		
2891 MISCELLANEOUS CHEMICAL PROD	8,903		8,692	11	200
2911 GASOLINE	8,983		1,412	1,017	2,534
2912 JET FUEL	1,287		1,287		
2914 DISTILLATE FUEL OIL	21,975		3,823	5,677	12,475

Waterborne Commerce of the United States, 1986

SERGIUS AND WHITESTONE HARBORS, ALASKA--CONTINUED

FREIGHT TRAFFIC, 1986--CONTINUED

DOMESTIC--CONTINUED

(SHORT TONS)

COMMODITY	TOTAL	COASTWISE		INTERNAL	
		THROUGH		THROUGH	
		NORTHBOUND	SOUTHBOUND	NORTHBOUND	SOUTHBOUND
2915 RESIDUAL FUEL OIL-----	11,564	174	10,744	111	535
2916 LUBRICATING OILS AND GREASES-----	49,180	-----	49,180	-----	-----
2921 LIQUEFIED GASES-----	26	14	14	-----	-----
2951 ASPHALT BUILDING MATERIALS-----	35	5	30	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	120	45	75	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	66	18	48	-----	-----
3241 BUILDING CEMENT-----	2,754	1,086	1,668	-----	-----
3251 STRUCTURAL CLAY PRODUCTS-----	63	29	34	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	1,050	372	678	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	24	8	16	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	39	10	16	13	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	53	14	19	-----	-----
3411 FABRICATED METAL PRODUCTS-----	2,989	1,137	1,795	44	13
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,975	898	1,008	43	26
3611 ELECTRICAL MACH AND EQUIP-----	108	46	62	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,355	468	836	42	9
3731 SHIPS AND BOATS-----	201	79	122	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	206	74	132	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	7	2	5	-----	-----
4011 IRON AND STEEL SCRAP-----	631	452	179	-----	-----
4112 COMMODITIES, NEC-----	7,926	2,616	5,307	-----	3
4119 EMPTY CONTAINERS-----	354	275	79	-----	-----

SKAGWAY HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATER FRONT OF SKAGWAY HARBOR. CONTROLLING DEPTH: MAIN HARBOR, ADEQUATE. DEPTH ALONGSIDE THE WHITE PASS AND YUKON RAILWAY SHARP, 19.9 FEET; 10.9 FEET IN SMALL BOAT BASIN; 42.5 FEET AT PACIFIC AND ARTIC RAILWAY NAVIGATION COMPANY DRE TERMINAL; 20 FEET AT ALASKA STATE FERRY DOCK. PROJECT DEPTH: MAIN HARBOR, 30 FEET ALONG SOUTHERLY 700 FEET OF FACE OF DOCK AND 20 FEET FOR THE NEXT 100 FEET; SMALL BOAT BASIN, 6 FEET FOR FEDERAL PORTION; 12 FEET MAINTAINED BY LOCAL INTERESTS. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	VESSEL TRAFFIC (TONS)	RAFTED (TONS)	TOTAL (TONS)	PASSENGERS	ADDITIONAL TRAFFIC	
					GENERAL	FERRY
					VEHICLES	PASSENGERS
1977-----	1,026,448	-----	1,026,448	77,058	5,458	77,058
1978-----	906,289	-----	906,289	187,637	5,612	187,637
1979-----	800,207	-----	800,207	101,732	3,891	101,732
1980-----	1,085,060	-----	1,085,060	153,752	5,367	153,752
1981-----	1,118,804	-----	1,118,804	52,538	8,652	52,538
1982-----	510,027	-----	510,027	91,859	10,722	91,859
1983-----	157,631	-----	157,631	59,514	9,048	59,514
1984-----	171,529	-----	171,529	132,885	11,336	132,885
1985-----	101,403	-----	101,403	5,044	-----	5,044
1986-----	639,897	-----	639,897	98,467	-----	98,467

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE	INTERNAL
				RECEIPTS	SHIPMENTS
TOTAL-----	639,897	234,257	399,902	5,512	40
0911 FRESH FISH, EXCEPT SHELLFISH-----	1	-----	-----	1	-----
1091 NONFERROUS ORES, CONCENT, NEC-----	399,881	-----	399,881	-----	-----
2081 ALCOHOLIC BEVERAGES-----	908	-----	-----	908	-----
2094 GROCERIES-----	81	-----	-----	81	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	1	-----	-----	1	-----
2421 LUMBER-----	15	-----	-----	15	-----
2491 WOOD MANUFACTURES, NEC-----	11	-----	-----	11	-----
2511 FURNITURE AND FIXTURES-----	1	-----	-----	1	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	21	-----	21	-----	-----
2851 PAINTS-----	72	-----	-----	72	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	36	-----	-----	-----	36
2911 GASOLINE-----	63,749	62,753	-----	996	-----
2912 JET FUEL-----	8,669	8,669	-----	-----	-----
2914 DISTILLATE FUEL OIL-----	163,125	159,941	-----	3,184	-----
2916 LUBRICATING OILS AND GREASES-----	17	-----	-----	17	-----
3291 MISC NONMETALLIC MINERAL PROD-----	11	-----	-----	11	-----
3411 FABRICATED METAL PRODUCTS-----	95	-----	-----	95	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	164	-----	-----	14	150
3711 MOTOR VEHICLES, PARTS, EQUIP-----	5	5	-----	-----	-----
4112 COMMODITIES, NEC-----	2,956	2,889	-----	65	2
4119 EMPTY CONTAINERS-----	38	-----	-----	-----	38

ALASKA DISTRICT

79

VALDEZ HARBOR, ALASKA

SECTION INCLUDED: ENTIRE WATERFRONT FROM POINT OF LAND WEST OF FERRY TERMINAL EASTERLY TO ALASKA HYDROTRAIN DOCK, EASTERN PART OF PORT VALDEZ FROM THE FERRY TERMINAL ON THE NORTH TO THE TRANS-ALASKA PIPELINE TERMINAL ON THE SOUTH. CONTROLLING DEPTH: 12 FEET IN THE SMALL BASIN. PROJECT DEPTH: 12 FEET, EXCEPT 20 FEET AT FERRY TERMINAL, 50 FEET OFF THE CITY DOCK, 75 FEET OFF THE VALDEZ DOCK, AND 0.0 AT SONTAG & ALASKA HYDROTRAIN FACILITIES. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	YEAR	TONS
1977-----	10,666,972	1982-----	90,138,462
1978-----	55,551,933	1983-----	93,536,165
1979-----	65,452,418	1984-----	92,047,493
1980-----	85,973,086	1985-----	99,624,406
1981-----	84,842,603	1986-----	101,118,169

* PASSENGERS--48,661.

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC	
		IMPORTS	COASTWISE RECEIPTS	INTERNAL SHIPMENTS
TOTAL-----	101,118,169	2,626	44,251	01,068,453
1311 CRUDE PETROLEUM-----	101,032,320			01,032,320
1442 SAND, GRAVEL, CRUSHED ROCK-----	2,100			2,100
2099 MISCELLANEOUS FOOD PRODUCTS-----	59		59	
2421 LUMBER-----	676		662	14
2491 WOOD MANUFACTURES, NEC-----	988		975	13
2911 GASOLINE-----	14,053		8,900	5,153
2912 JET FUEL-----	4,867		2,035	2,832
2914 DISTILLATE FUEL OIL-----	50,375		24,586	25,050
2915 RESIDUAL FUEL OIL-----	2,131			2,131
2991 PETROLEUM AND COAL PROD, NEC-----	537		537	
3291 MISC NONMETALLIC MINERAL PROD-----	1,178		1,165	13
3317 IRON AND STEEL PIPE AND TUBE-----	2,626	2,626		
3511 MACHINERY, EXCEPT ELECTRICAL-----	5,236		4,588	648
3711 MOTOR VEHICLES, PARTS, EQUIP-----	532		532	
4011 IRON AND STEEL SCRAP-----	6			6
4112 COMMODITIES, NEC-----	485		212	273

SEWARD HARBOR, ALASKA

SECTION INCLUDED: ALASKA RAILROAD DOCK AND THE SEWARD BOAT BASIN INCLUDING THE CITY DOCK. CONTROLLING DEPTH: 35 FEET BELOW MEAN LOWER LOW WATER AT THE RAILROAD DOCK; 15 FEET IN THE 200 FOOT ENTRANCE CHANNEL TO THE BOAT BASIN AND AT THE CITY DOCK; 25 FEET IN THE BOAT MOORING AREA.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	YEAR	TONS	PASSENGERS
1977-----	89,449	6,866	1982-----	137,118	9,072
1978-----	92,554	6,404	1983-----	40,748	6,256
1979-----	59,754	3,918	1984-----	356,612	9,422
1980-----	137,849	9,177	1985-----	872,823	
1981-----	113,602	9,365	1986-----	811,951	14,980

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN	DOMESTIC	
		IMPORTS	EXPORTS	COASTWISE RECEIPTS
TOTAL-----	811,951	71,473	723,889	15,437
0911 FRESH FISH, EXCEPT SHELLFISH-----	22,856		22,703	153
0912 SHELLFISH, EXCEPT PREPARED-----	1,790		1,790	
1121 COAL AND LIGNITE-----	690,880		690,880	
1451 CLAY-----	3,283	3,283		
2031 FISH AND SHELLFISH, PREPARED-----	3,040		3,040	
2411 LOGS-----	5,405		5,405	
2691 PULP AND PAPER PRODUCTS, NEC-----	7	7		
2819 BASIC CHEMICALS AND PROD, NEC-----	74	74		
2821 PLASTIC MATERIALS-----	17	17		
2831 DRUGS-----	134	134		
2841 SOAP-----	125	125		
2851 PAINTS-----	21	21		
2911 GASOLINE-----	56			56
2914 DISTILLATE FUEL OIL-----	9,016			9,016
3315 IRON, STEEL SHAPES, EXC SHEET-----	331	331		
3317 IRON AND STEEL PIPE AND TUBE-----	65,333	65,333		
3323 LEAD AND ZINC, UNWORKED-----	24	24		
3411 FABRICATED METAL PRODUCTS-----	1,550	1,550		
3511 MACHINERY, EXCEPT ELECTRICAL-----	1,111	558		410
3711 MOTOR VEHICLES, PARTS, EQUIP-----	775			310
4112 COMMODITIES, NEC-----	5,553	16	1	5,492
9999 DEPARTMENT OF DEFENSE AND SCI-----	70		70	

Waterborne Commerce of the United States, 1986

ANCHORAGE, ALASKA

SECTION INCLUDED: KNIK ARM FROM THE MUNICIPAL TERMINAL ON THE NORTH TO AND INCLUDING TERMINAL FACILITIES ON SHIP CREEK, CONTROLLING DEPTH: 35 FEET OFF THE FACE OF THE CITY DOCK; THE APPROACH CHANNEL NORTH OF FIRE ISLAND, TO POINT MORONZOF, 20.5 FEET, PROJECT DEPTH: 35 FEET. ALL DEPTHS REFER TO MLLW.

COMPARATIVE STATEMENT OF TRAFFIC

YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC		YEAR	TONS	PASSENGERS	ADDITIONAL TRAFFIC	
			GENERAL FERRY	VEHICLES				GENERAL FERRY	VEHICLES
1977-----	2,267,081	-----	-----	-----	1982-----	1,998,185	-----	-----	-----
1978-----	2,226,158	-----	-----	-----	1983-----	2,424,432	-----	-----	-----
1979-----	1,638,747	-----	-----	-----	1984-----	2,382,726	-----	-----	-----
1980-----	1,751,640	-----	-----	-----	1985-----	1,939,441	-----	-----	-----
1981-----	2,259,941	-----	-----	-----	1986-----	1,331,554	-----	-----	-----

FREIGHT TRAFFIC, 1986

(SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
TOTAL-----	1,331,554	126,955	32,535	1,020,233	143,064	4,807	3,960
0105 RICE-----	23	-----	-----	23	-----	-----	-----
0112 FLAXSEED-----	51	-----	-----	51	-----	-----	-----
0131 FRESH FRUITS-----	3,392	-----	-----	3,392	-----	-----	-----
0132 BANANAS AND PLANTAINS-----	743	-----	-----	743	-----	-----	-----
0141 FRESH AND FROZEN VEGETABLES-----	3,377	-----	-----	3,377	-----	-----	-----
0161 ANIMALS AND PRODUCTS, NEC-----	583	-----	-----	583	17	-----	-----
0801 FOREST PRODUCTS, NEC-----	71	17	-----	54	-----	-----	-----
0911 FRESH FISH, EXCEPT SMELFISH-----	29,332	-----	16,694	76	12,562	-----	-----
0912 SMELFISH, EXCEPT PREPARED-----	4,510	-----	4,510	-----	-----	-----	-----
0931 MARINE SHELLS, UNMANUFACTURED-----	112	-----	-----	-----	112	-----	-----
1011 IRON ORE AND CONCENTRATES-----	476	476	-----	-----	-----	-----	-----
1121 COAL AND LIGNITE-----	10,710	-----	-----	10,707	3	-----	-----
1402 SAND, GRAVEL, CRUSHED ROCK-----	281	-----	-----	281	-----	-----	-----
1451 CLAY-----	108	-----	-----	108	-----	-----	-----
1491 SALT-----	279	214	-----	65	-----	-----	-----
1499 NONMETALLIC MINERALS, NEC-----	109	-----	-----	109	-----	-----	-----
2011 MEAT, FRESH, CHILLED, FROZEN-----	2,467	-----	-----	2,467	-----	-----	-----
2012 MEAT AND PRODUCTS, NEC-----	185	-----	-----	-----	185	-----	-----
2021 DAIRY PRODUCTS, NEC-----	8,006	-----	-----	8,006	-----	-----	-----
2031 FISH AND SHELLFISH, PREPARED-----	25,784	-----	829	64	24,891	-----	-----
2042 ANIMAL FEEDS-----	1,030	205	666	159	-----	-----	-----
2081 ALCOHOLIC BEVERAGES-----	1,443	2	-----	1,443	-----	-----	-----
2092 ANIMAL OILS AND FATS, NEC-----	56	-----	-----	-----	56	-----	-----
2094 GROCERIES-----	273,164	-----	-----	273,121	43	-----	-----
2099 MISCELLANEOUS FOOD PRODUCTS-----	17,309	-----	-----	17,309	-----	-----	-----
2111 TOBACCO MANUFACTURES-----	234	-----	-----	234	-----	-----	-----
2211 BASIC TEXTILE PRODUCTS-----	21	8	-----	13	-----	-----	-----
2413 FUEL OIL, CHARCOAL, WASTES-----	47	-----	-----	47	-----	-----	-----
2414 TIMBER, POSTS, POLES, PILING-----	54	-----	-----	25	29	-----	-----
2421 LUMBER-----	26,016	2,931	-----	22,755	330	-----	-----
2431 VENEER, PLYWOOD, WORKED WOOD-----	490	-----	-----	490	-----	-----	-----
2491 WOOD MANUFACTURES, NEC-----	21,417	83	-----	21,005	329	-----	-----
2511 FURNITURE AND FIXTURES-----	18,781	5	-----	8,556	10,220	-----	-----
2621 STANDARD NEWSPRINT PAPER-----	1,591	1,279	-----	312	-----	-----	-----
2691 PULP AND PAPER PRODUCTS, NEC-----	13,154	17	-----	13,137	-----	-----	-----
2711 PRINTED MATTER-----	235	-----	-----	235	-----	-----	-----
2811 CRUDE TAR, OIL, GAS PRODUCTS-----	29	2	-----	27	-----	-----	-----
2813 ALCOHOLS-----	1,370	1,370	-----	-----	-----	-----	-----
2817 BENZENE AND TOLUENE-----	489	-----	-----	489	-----	-----	-----
2819 BASIC CHEMICALS AND PROD, NEC-----	7,726	26	-----	7,698	-----	-----	-----
2821 PLASTIC MATERIALS-----	58	4	-----	54	-----	-----	-----
2841 SOAP-----	197	-----	-----	197	-----	-----	-----
2851 PAINTS-----	163	14	-----	149	-----	-----	-----
2871 NITROGENOUS CHEM FERTILIZERS-----	15	-----	-----	15	-----	-----	-----
2879 FERTILIZER AND MATERIALS, NEC-----	466	-----	-----	466	-----	-----	-----
2891 MISCELLANEOUS CHEMICAL PROD-----	174	-----	-----	188	26	-----	-----
2911 GASOLINE-----	11,917	4,491	-----	6,040	247	1,139	-----
2912 JET FUEL-----	91,075	28,257	-----	50,140	10,421	2,257	-----
2914 DISTILLATE FUEL OIL-----	17,644	3,382	9,824	1,020	2,221	1,197	-----
2916 LUBRICATING OILS AND GREASES-----	6,949	-----	-----	6,949	-----	-----	-----
2917 NAPHTHA, PETROLEUM SOLVENTS-----	44	-----	-----	45	1	-----	-----
2918 ASPHALT, TAR, AND PITCHES-----	15	-----	-----	15	-----	-----	-----
2921 LIQUEFIED GASES-----	33	-----	-----	26	7	-----	-----
2991 PETROLEUM AND COAL PROD, NEC-----	2,716	-----	-----	2,664	52	-----	-----
3011 RUBBER AND MISC PLASTIC PROD-----	4,112	10	-----	762	3,340	-----	-----
3111 LEATHER AND LEATHER PRODUCTS-----	95	31	-----	64	-----	-----	-----
3211 GLASS AND GLASS PRODUCTS-----	390	324	-----	66	-----	-----	-----
3241 BUILDING CEMENT-----	72,738	35,065	-----	33,713	-----	-----	3,960
3261 CUT STONE AND STONE PRODUCTS-----	682	-----	-----	682	-----	-----	-----
3291 MISC NONMETALLIC MINERAL PROD-----	21,409	-----	-----	21,095	314	-----	-----
3314 IRON AND STEEL PRIMARY FORMS-----	116	-----	-----	116	-----	-----	-----
3315 IRON, STEEL SHAPES, EXC SHEET-----	4,274	4,105	-----	124	45	-----	-----
3317 IRON AND STEEL PIPE AND TUBE-----	6,744	3,368	-----	2,571	805	-----	-----
3319 IRON AND STEEL PRODUCTS, NEC-----	117	-----	-----	102	15	-----	-----
3321 NONFERROUS METALS, NEC-----	20	-----	-----	-----	20	-----	-----
3411 FABRICATED METAL PRODUCTS-----	98,193	38,806	-----	54,847	2,540	-----	-----
3511 MACHINERY, EXCEPT ELECTRICAL-----	7,376	797	-----	4,121	2,458	-----	-----
3611 ELECTRICAL MACH AND EQUIP-----	182	1	-----	144	37	-----	-----
3711 MOTOR VEHICLES, PARTS, EQUIP-----	32,853	1,656	-----	22,904	8,099	194	-----
3731 SHIPS AND BOATS-----	148	-----	-----	140	8	-----	-----
3791 MISC TRANSPORTATION EQUIPMENT-----	52	-----	-----	39	13	-----	-----
3911 MISC MANUFACTURED PRODUCTS-----	16,634	3	-----	135	16,496	-----	-----
4011 IRON AND STEEL SCRAP-----	369	-----	-----	-----	369	-----	-----

ALASKA DISTRICT

81

ANCHORAGE, ALASKA--CONTINUED
 FREIGHT TRAFFIC, 1986--CONTINUED
 (SHORT TONS)

COMMODITY	TOTAL	FOREIGN		DOMESTIC			
		IMPORTS	EXPORTS	COASTWISE		INTERNAL	
				RECEIPTS	SHIPMENTS	RECEIPTS	SHIPMENTS
4012 NONFERROUS METAL SCRAP-----	68	-----	-----	-----	68	-----	-----
4024 PAPER WASTE AND SCRAP-----	20	-----	-----	-----	20	-----	-----
4112 COMMODITIES, NEC-----	444,919	4	12	413,387	31,496	20	-----
4113 LCL FREIGHT-----	2	-----	-----	-----	2	-----	-----
4119 EMPTY CONTAINERS-----	15,341	-----	-----	174	15,167	-----	-----

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT				
DETUEL HARBOR, ALASKA-----	0122 HAY AND FODDER-----	1		
	1402 SAND, GRAVEL, CRUSHED ROCK-----	20,386		
	1491 SALT-----	93		
	2002 ANIMAL FEEDS-----	1		
	2081 ALCOHOLIC BEVERAGES-----	34		
	2094 GROCERIES-----	191		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	852		
	2414 LUMBER, POSTS, POLES, PILING-----	52		
	2421 LUMBER-----	3,952		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	92		
	2491 WOOD MANUFACTURES, NEC-----	832		
	2511 FURNITURE AND FIXTURES-----	21		
	2871 NITROGENOUS CHEM FERTILIZERS-----	39		
	2911 GASOLINE-----	5,592		
	2912 JET FUEL-----	8,971		
	2914 DISTILLATE FUEL OIL-----	4,761		
	2917 NAPHTHA, PETROLEUM SOLVENTS-----	1		
	2918 ASPHALT, TAR, AND PITCHES-----	7		
	2921 LIQUEFIED GASES-----	236		
	2951 ASPHALT BUILDING MATERIALS-----	4		
	2991 PETROLEUM AND COAL PROD, NEC-----	7,211		
	3011 RUBBER AND MISC PLASTIC PROD-----	10		
	3281 CUT STONE AND STONE PRODUCTS-----	1		
	3291 MISC NONMETALLIC MINERAL PROD-----	1,645		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	45		
	3317 IRON AND STEEL PIPE AND TUBE-----	15		
	3319 IRON AND STEEL PRODUCTS, NEC-----	6		
	3411 FABRICATED METAL PRODUCTS-----	717		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	650		
	3611 ELECTRICAL MACH AND EQUIP-----	15		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	330		
	3721 SHIPS AND BOATS-----	115		
	3791 MISC TRANSPORTATION EQUIPMENT-----	26		
	4112 COMMODITIES, NEC-----	11,939		
	4119 EMPTY CONTAINERS-----	121		
	TOTAL-----	68,756		
CORDOVA HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	297		
	0931 MARINE SHELLS, UNMANUFACTURED-----	15		
	2031 FISH AND SHELLFISH, PREPARED-----	225		
	2092 ANIMAL OILS AND FATS, NEC-----	50		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	377		
	2421 LUMBER-----	566		
	2491 WOOD MANUFACTURES, NEC-----	567		
	2911 GASOLINE-----	3,634		
	2912 JET FUEL-----	1,165		
	2914 DISTILLATE FUEL OIL-----	11,220		
	2991 PETROLEUM AND COAL PROD, NEC-----	88		
	3291 MISC NONMETALLIC MINERAL PROD-----	566		
	3411 FABRICATED METAL PRODUCTS-----	51		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	26		
	3911 MISC MANUFACTURED PRODUCTS-----	103		
	4112 COMMODITIES, NEC-----	427		
	TOTAL-----	19,377		17,473
CRAIG HARBOR, ALASKA-----	4112 COMMODITIES, NEC-----	1,696		
DILLINGHAM HARBOR, ALASKA-----	1402 SAND, GRAVEL, CRUSHED ROCK-----	22		
	1491 SALT-----	155		
	2081 ALCOHOLIC BEVERAGES-----	518		
	2094 GROCERIES-----	136		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	193		
	2421 LUMBER-----	1,182		
	2491 WOOD MANUFACTURES, NEC-----	759		
	2511 FURNITURE AND FIXTURES-----	64		
	2691 PULP AND PAPER PRODUCTS, NEC-----	165		
	2821 PLASTIC MATERIALS-----	5		
	2871 NITROGENOUS CHEM FERTILIZERS-----	20		
	2691 MISCELLANEOUS CHEMICAL PROD-----	5		
	2911 GASOLINE-----	3,297		
	2912 JET FUEL-----	3,298		
	2914 DISTILLATE FUEL OIL-----	7,524		
	2916 LUBRICATING OILS AND GREASES-----	43		
	2921 LIQUEFIED GASES-----	105		
	2951 ASPHALT BUILDING MATERIALS-----	13		
	2991 PETROLEUM AND COAL PROD, NEC-----	8		
	3241 BUILDING CEMENT-----	291		
	3291 MISC NONMETALLIC MINERAL PROD-----	1,557		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	16		
	3319 IRON AND STEEL PRODUCTS, NEC-----	14		
	3411 FABRICATED METAL PRODUCTS-----	606		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	181		
	3611 ELECTRICAL MACH AND EQUIP-----	18		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	319		
	3721 AIRCRAFT AND PARTS-----	2		
	3731 SHIPS AND BOATS-----	191		
	3911 MISC MANUFACTURED PRODUCTS-----	16		
	4112 COMMODITIES, NEC-----	3,212		
	4119 EMPTY CONTAINERS-----	95		
	TOTAL-----	24,050		
DOUGLAS HARBOR, ALASKA-----	2421 LUMBER-----	67		
	2491 WOOD MANUFACTURES, NEC-----	67		
	3291 MISC NONMETALLIC MINERAL PROD-----	66		
	3411 FABRICATED METAL PRODUCTS-----	150		

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
DOUGLAS HARBOR, ALASKA (CONTINUED)-----	3791 MISC TRANSPORTATION EQUIPMENT-----	30	-----	-----
	TOTAL-----	380	-----	-----
DRY PASS, ALASKA-----	NO COMMERCE REPORTED			
EGEGIK RIVER, ALASKA-----	2081 ALCOHOLIC BEVERAGES-----	43	-----	-----
	2094 GROCERIES-----	71	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	10	-----	-----
	2421 LUMBER-----	56	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	20	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	35	-----	-----
	2921 LIQUEFIED GASES-----	15	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	2	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	35	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	13	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	42	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	6	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	16	-----	-----
	3731 SHIPS AND BOATS-----	29	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	4	-----	-----
	4112 COMMODITIES, NEC-----	231	-----	-----
	4113 LCL FREIGHT-----	6	-----	-----
	TOTAL-----	630	-----	-----
ELFIN COVE HARBOR, ALASKA-----	NO COMMERCE REPORTED			
GASTINEAU CHANNEL, ALASKA-----	0122 HAY AND FODDER-----	272	-----	-----
	0129 FIELD CROPS, NEC-----	140	-----	-----
	0131 FRESH FRUIT-----	65	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,362	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	72	-----	-----
	0861 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	296	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	251	-----	-----
	1451 CLAY-----	25	-----	-----
	1491 SALT-----	436	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	761	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	2	-----	-----
	2042 ANIMAL FEEDS-----	1,095	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	147	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	3,369	-----	-----
	2094 GROCERIES-----	17,197	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,550	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	21	-----	-----
	2411 LOGS-----	92,919	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	6	-----	-----
	2421 LUMBER-----	4,186	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,020	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	2,804	-----	-----
	2511 FURNITURE AND FIXTURES-----	911	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	116	-----	-----
	2631 PAPER AND PAPERBOARD-----	196	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	493	-----	-----
	2711 PRINTED MATTER-----	32	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	46	-----	-----
	2821 PLASTIC MATERIALS-----	17	-----	-----
	2841 SOAP-----	15	-----	-----
	2851 PAINTS-----	232	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	222	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	51	-----	-----
	2911 GASOLINE-----	10,120	-----	-----
	2912 JET FUEL-----	61	-----	-----
	2914 DISTILLATE FUEL OIL-----	16,604	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,107	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	220	-----	-----
	2921 LIQUEFIED GASES-----	81	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	68	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	237	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	1	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	24	-----	-----
	3241 BUILDING CEMENT-----	6,485	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	74	-----	-----
	3271 LIME-----	41	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	4,172	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	143	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	125	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	40	-----	-----
	3322 COPPER ALLOYS, UNWORKED-----	14	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	2,335	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,824	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	104	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,106	-----	-----
	3731 SHIPS AND BOATS-----	142	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	302	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	17	-----	-----
	4011 IRON AND STEEL SCRAP-----	205	-----	-----
	4112 COMMODITIES, NEC-----	15,520	-----	-----
	4113 LCL FREIGHT-----	6	-----	-----
	4119 EMPTY CONTAINERS-----	543	-----	-----
	TOTAL-----	194,386	1,555,104	198,817
WOMER, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	16,930	-----	-----

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT--CONTINUED				
HOMER, ALASKA (CONTINUED)-----	0912 SHELLFISH, EXCEPT PREPARED-----	325	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	808	-----	-----
	2042 ANIMAL FEEDS-----	555	-----	-----
	2061 ALCOHOLIC BEVERAGES-----	21	-----	-----
	2421 LUMBER-----	49	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	4	-----	-----
	2511 FURNITURE AND FIXTURES-----	16	-----	-----
	2914 DISTILLATE FUEL OIL-----	10,046	-----	-----
	2915 RESIDUAL FUEL OIL-----	6,604	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	104	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	5	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	37,479	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	697	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	33	-----	-----
	3731 SHIPS AND BOATS-----	11	-----	-----
	4112 COMMODITIES, NEC-----	24	-----	-----
	TOTAL-----	73,707	-----	21,991
HOONAH HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	43	-----	-----
	1491 SALT-----	4	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	4	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	606	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	4	-----	-----
	2094 GROCERIES-----	653	-----	-----
	2411 LOGS-----	150,874	-----	-----
	2412 RAFTED LOGS-----	1,313	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	6	-----	-----
	2691 MISCELLANEOUS CHEMICAL PROD-----	152	-----	-----
	2911 GASOLINE-----	264	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,419	-----	-----
	2915 RESIDUAL FUEL OIL-----	404	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	24	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	346	-----	-----
	4112 COMMODITIES, NEC-----	2,445	-----	-----
	TOTAL-----	166,561	-----	18,901
HUMBOLDT HARBOR, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	85	-----	-----
	1491 SALT-----	189	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	78	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	941	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	119	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	716	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	151	-----	-----
	2911 GASOLINE-----	1,513	-----	-----
	2912 JET FUEL-----	63	-----	-----
	2914 DISTILLATE FUEL OIL-----	4,778	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,197	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	605	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	465	-----	-----
	4112 COMMODITIES, NEC-----	1,196	-----	-----
	TOTAL-----	11,792	-----	749
JUNEAU HARBOR, ALASKA-----	0122 HAY AND FODDER-----	272	-----	-----
	0129 FIELD CROPS, NEC-----	140	-----	-----
	0131 FRESH FRUITS-----	85	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	1,382	-----	-----
	0191 MISCELLANEOUS FARM PRODUCTS-----	72	-----	-----
	0661 FOREST PRODUCTS, NEC-----	170	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	296	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	57	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	81	-----	-----
	1451 CLAY-----	25	-----	-----
	1491 SALT-----	436	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	781	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	2	-----	-----
	2042 ANIMAL FEEDS-----	1,095	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	147	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	3,369	-----	-----
	2094 GROCERIES-----	17,197	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,550	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	21	-----	-----
	2411 LOGS-----	92,919	-----	-----
	2414 LUMBER, POSTS, POLES, PILING-----	6	-----	-----
	2421 LUMBER-----	3,984	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,006	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	2,802	-----	-----
	2511 FURNITURE AND FIXTURES-----	899	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----
	2631 PAPER AND PAPERBOARD-----	194	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	493	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	48	-----	-----
	2821 PLASTIC MATERIALS-----	17	-----	-----
	2841 SOAP-----	15	-----	-----
	2851 PAINTS-----	232	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	222	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	51	-----	-----
	2911 GASOLINE-----	10,120	-----	-----
	2912 JET FUEL-----	81	-----	-----
	2914 DISTILLATE FUEL OIL-----	16,604	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,107	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	220	-----	-----
	2921 LIQUEFIED GASES-----	63	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	68	-----	-----

ALASKA DISTRICT

85

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
JUNEAU HARBOR, ALASKA (CONTINUED)-----	2991 PETROLEUM AND COAL PROD, NEC-----	159	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	1	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	28	-----	-----
	3241 BUILDING CEMENT-----	6,414	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	16	-----	-----
	3271 LIME-----	41	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	4,161	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	143	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	125	-----	-----
	3322 COPPER ALLOYS, UNWORKED-----	14	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	1,969	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,826	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	96	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,102	-----	-----
	3731 SHIPS AND BOATS-----	142	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	302	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	17	-----	-----
	4011 IRON AND STEEL SCRAP-----	205	-----	-----
	4112 COMMODITIES, NEC-----	15,544	-----	-----
	4113 LCL FREIGHT-----	8	-----	-----
	4119 EMPTY CONTAINERS-----	543	-----	-----
	TOTAL-----	193,285	-----	198,017
KING COVE LAGOON, ALASKA-----	0411 FRESH FISH, EXCEPT SHELLFISH-----	86	-----	-----
	1491 SALT-----	461	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	151	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	4,420	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	233	-----	-----
	2491 FOOD MANUFACTURES, NEC-----	74	-----	-----
	2511 FURNITURE AND FIXTURES-----	15	-----	-----
	2641 PULP AND PAPER PRODUCTS, NEC-----	298	-----	-----
	2911 GASOLINE-----	206	-----	-----
	2914 DISTILLATE FUEL OIL-----	2,989	-----	-----
	2915 RESIDUAL FUEL OIL-----	30	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	10	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	713	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	8	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	16	-----	-----
	4112 COMMODITIES, NEC-----	2,597	-----	-----
	TOTAL-----	12,309	-----	427
KODIAK HARBOR, ALASKA-----	0112 FLAXSEED-----	64	-----	-----
	0129 FIELD CROPS, NEC-----	6	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	101	-----	-----
	0161 ANIMALS AND PRODUCTS, NEC-----	2,662	-----	-----
	0411 FRESH FISH, EXCEPT SHELLFISH-----	38,452	-----	-----
	0412 SHELLFISH, EXCEPT PREPARED-----	3,979	-----	-----
	0431 MARINE SHELLS, UNMANUFACTURED-----	371	-----	-----
	1121 COAL AND LIGNITE-----	3,949	-----	-----
	1412 BUILDING STONE, UNWORKED-----	16	-----	-----
	1491 SALT-----	1,110	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	3	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	22,271	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	1	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	26	-----	-----
	2042 ANIMAL FEEDS-----	128	-----	-----
	2061 ALCOHOLIC BEVERAGES-----	91	-----	-----
	2092 ANIMAL OILS AND FATS, NEC-----	143	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	864	-----	-----
	2311 APPAREL-----	283	-----	-----
	2421 LUMBER-----	4,499	-----	-----
	2491 FOOD MANUFACTURES, NEC-----	4,218	-----	-----
	2511 FURNITURE AND FIXTURES-----	31	-----	-----
	2631 PAPER AND PAPERBOARD-----	729	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	920	-----	-----
	2711 PRINTED MATTER-----	1	-----	-----
	2812 DYES, PIGMENT, TANNING MATS-----	3	-----	-----
	2817 BENZENE AND TOLUENE-----	640	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	56	-----	-----
	2821 PLASTIC MATERIALS-----	195	-----	-----
	2822 SYNTHETIC RUBBER-----	7	-----	-----
	2823 SYNTHETIC (MAN-MADE) FIBERS-----	12	-----	-----
	2841 SOAP-----	8	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	221	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	13	-----	-----
	2911 GASOLINE-----	9,453	-----	-----
	2912 JET FUEL-----	17,118	-----	-----
	2914 DISTILLATE FUEL OIL-----	46,818	-----	-----
	2915 RESIDUAL FUEL OIL-----	138	-----	-----
	2921 LIQUEFIED GASES-----	157	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	310	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	132	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	4,228	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	1	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	2	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	512	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,198	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	27	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	617	-----	-----
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	33	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	3,501	-----	-----
	4011 IRON AND STEEL SCRAP-----	98	-----	-----
	4112 COMMODITIES, NEC-----	33,143	-----	-----
	4119 EMPTY CONTAINERS-----	30	-----	-----
	TOTAL-----	109,609	-----	21,163

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT--CONTINUED				
NETLAKATLA HARBOR, ALASKA-----	0191 MISCELLANEOUS FARM PRODUCTS-----	59	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	1,157	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	3,400	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	120	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,176	-----	-----
	2411 LOGS-----	16,546	-----	-----
	2412 RAFTED LOGS-----	80,625	-----	-----
	2416 WOOD CHIPS, STAVES, WULDINGS-----	69,454	-----	-----
	2421 LUMBER-----	43,085	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	452	-----	-----
	2511 FURNITURE AND FIXTURES-----	22	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	2	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	93	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	10	-----	-----
	2911 GASOLINE-----	757	-----	-----
	2914 DISTILLATE FUEL OIL-----	1,266	-----	-----
	2915 RESIDUAL FUEL OIL-----	38	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	179	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	10	-----	-----
	3241 BUILDING CEMENT-----	271	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	1,090	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	219	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	16	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	127	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	38	-----	-----
	4112 COMMODITIES, NEC-----	124	-----	-----
	4119 EMPTY CONTAINERS-----	50	-----	-----
	TOTAL-----	220,372	-----	16,063
VAKNEK RIVER, ALASKA-----	1442 SAND, GRAVEL, CRUSHED ROCK-----	8	-----	-----
	1491 SALT-----	165	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	4	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	4,313	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	6	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	331	-----	-----
	2094 GROCERIES-----	296	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	68	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	47	-----	-----
	2421 LUMBER-----	622	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	102	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	649	-----	-----
	2511 FURNITURE AND FIXTURES-----	12	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	14	-----	-----
	2813 ALCOHOLS-----	337	-----	-----
	2821 PLASTIC MATERIALS-----	4	-----	-----
	2851 PAINTS-----	19	-----	-----
	2911 GASOLINE-----	4,910	-----	-----
	2912 JET FUEL-----	4,989	-----	-----
	2914 DISTILLATE FUEL OIL-----	13,939	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,571	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	93	-----	-----
	2918 ASPHALT, TAR, AND BITUMENS-----	74	-----	-----
	2921 LIQUEFIED GASES-----	90	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	1,498	-----	-----
	3241 BUILDING CEMENT-----	436	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	349	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	62	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	7	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	531	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,022	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	2	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	497	-----	-----
	3731 SHIPS AND BOATS-----	297	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	49	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	5	-----	-----
	4112 COMMODITIES, NEC-----	6,149	-----	-----
	4119 EMPTY CONTAINERS-----	96	-----	-----
	TOTAL-----	43,663	63,184	-----
VINILCHIK HARBOR, ALASKA-----	NO COMMERCE REPORTED			
WOME, ALASKA-----	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,320	-----	-----
	0912 SHELLFISH, EXCEPT PREPARED-----	296	-----	-----
	1491 SALT-----	119	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	142	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	370	-----	-----
	2094 GROCERIES-----	13	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	571	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	20	-----	-----
	2421 LUMBER-----	867	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	325	-----	-----
	2511 FURNITURE AND FIXTURES-----	16	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	69	-----	-----
	2861 GUM AND WOOD CHEMICALS-----	17	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	21	-----	-----
	2911 GASOLINE-----	5,303	-----	-----
	2912 JET FUEL-----	381	-----	-----
	2914 DISTILLATE FUEL OIL-----	21,710	-----	-----
	2921 LIQUEFIED GASES-----	16	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	3	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	17	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	52	-----	-----
	3241 BUILDING CEMENT-----	3	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	588	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	101	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	39	-----	-----

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
PROJECT--CONTINUED				
NOME, ALASKA (CONTINUED)	3411 FABRICATED METAL PRODUCTS-----	549		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	389		
	3611 ELECTRICAL MACH AND EQUIP-----	8		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	551		
	3731 SHIPS AND BOATS-----	113		
	3791 MISC TRANSPORTATION EQUIPMENT-----	17		
	3911 MISC MANUFACTURED PRODUCTS-----	6		
	4111 WATER-----	908		
	4112 COMMODITIES, NEC-----	10,353		
	4119 EMPTY CONTAINERS-----	66		
	TOTAL-----	47,141		
OLD HARBOR, ALASKA	1491 SALT-----	24		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	16		
	2031 FISH AND SHELLFISH, PREPARED-----	2,062		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	26		
	2691 PULP AND PAPER PRODUCTS, NEC-----	33		
	2911 GASOLINE-----	54		
	2914 DISTILLATE FUEL OIL-----	521		
	3411 FABRICATED METAL PRODUCTS-----	60		
	4112 COMMODITIES, NEC-----	553		
	TOTAL-----	3,149		
PELICAN HARBOR, ALASKA	0911 FRESH FISH, EXCEPT SHELLFISH-----	40		
	2031 FISH AND SHELLFISH, PREPARED-----	3,261		
	4112 COMMODITIES, NEC-----	1,309		
	TOTAL-----	4,610		2,510
PETERSBURG HARBOR, ALASKA	0191 MISCELLANEOUS FARM PRODUCTS-----	44		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	286		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	21		
	1491 SALT-----	264		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	1		
	2031 FISH AND SHELLFISH, PREPARED-----	7,710		
	2081 ALCOHOLIC BEVERAGES-----	24		
	2094 GROCERIES-----	1,242		
	2699 MISCELLANEOUS FOOD PRODUCTS-----	859		
	2211 BASIC TEXTILE PRODUCTS-----	9		
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	10,345		
	2421 LUMBER-----	10,772		
	2431 VENEER, PLYWOOD, ADKED WOOD-----	26		
	2491 WOOD MANUFACTURES, NEC-----	87		
	2511 FURNITURE AND FIXTURES-----	136		
	2691 PULP AND PAPER PRODUCTS, NEC-----	68		
	2819 BASIC CHEMICALS AND PROD, NEC-----	286		
	2851 PAINTS-----	1		
	2879 FERTILIZER AND MATERIALS, NEC-----	12		
	2911 GASOLINE-----	970		
	2912 JET FUEL-----	226		
	2914 DISTILLATE FUEL OIL-----	5,920		
	2915 RESIDUAL FUEL OIL-----	157		
	2916 LUBRICATING OILS AND GREASES-----	68		
	2991 PETROLEUM AND COAL PROD, NEC-----	52		
	3011 RUBBER AND MISC PLASTIC PROD-----	28		
	3241 BUILDING CEMENT-----	1,960		
	3291 MISC NONMETALLIC MINERAL PROD-----	172		
	3314 IRON AND STEEL PRIMARY FIRMS-----	3		
	3317 IRON AND STEEL PIPE AND TUBE-----	1		
	3319 IRON AND STEEL PRODUCTS, NEC-----	2		
	3322 COPPER ALLOYS, UNALLOYED-----	1		
	3411 FABRICATED METAL PRODUCTS-----	2,907		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,219		
	3611 ELECTRICAL MACH AND EQUIP-----	108		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	437		
	3731 SHIPS AND BOATS-----	4		
	3791 MISC TRANSPORTATION EQUIPMENT-----	2		
	3911 MISC MANUFACTURED PRODUCTS-----	254		
	4112 COMMODITIES, NEC-----	846		
	4119 EMPTY CONTAINERS-----	10		
	TOTAL-----	50,542		52,422
PORT ALEXANDER, ALASKA	NO COMMERCE REPORTED			
SELDOVIA HARBOR, ALASKA	2911 GASOLINE-----	495		
	2914 DISTILLATE FUEL OIL-----	1,907		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	30		
	4112 COMMODITIES, NEC-----	11		
	TOTAL-----	2,443		9,180
STIKINE RIVER, ALASKA	1442 SAND, GRAVEL, CRUSHED ROCK-----	12,715		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	20		
	TOTAL-----	12,735		
UNALASKA BAY AND ISLAND, ALASKA	0129 FIELD CROPS, NEC-----	18		
	0131 FRESH FRUITS-----	37		
	0141 FRESH AND FROZEN VEGETABLES-----	278		
	0161 ANIMALS AND PRODUCTS, NEC-----	39		
	0861 FOREST PRODUCTS, NEC-----	1		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	2,162		
	0912 SHELLFISH, EXCEPT PREPARED-----	3,165		
	1491 SALT-----	1,138		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	427		

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
PROJECT--CONTINUED				
ALASKA BAY AND ISLAND, ALASKA (CONTINUED)-----				
	2012 MEAT AND PRODUCTS, NEC-----	3		
	2031 FISH AND SHELLFISH, PREPARED-----	12,059		
	2034 VEGETABLES AND PREP, NEC-----	19		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	675		
	2042 ANIMAL FEEDS-----	282		
	2092 ANIMAL OILS AND FATS, NEC-----	20		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	54		
	2211 BASIC TEXTILE PRODUCTS-----	31		
	2311 APPAREL-----	45		
	2421 LUMBER-----	26		
	2441 WOOD MANUFACTURES, NEC-----	154		
	2631 PAPER AND PAPERBOARD-----	666		
	2691 PULP AND PAPER PRODUCTS, NEC-----	989		
	2819 BASIC CHEMICALS AND PROD, NEC-----	276		
	2821 PLASTIC MATERIALS-----	465		
	2822 SYNTHETIC RUBBER-----	45		
	2823 SYNTHETIC (MAN-MADE) FIBERS-----	23		
	2831 DRUGS-----	5		
	2841 SOAP-----	32		
	2851 PAINTS-----	5		
	2871 NITROGENOUS CHEM FERTILIZERS-----	39		
	2891 MISCELLANEOUS CHEMICAL PROD-----	34		
	2911 GASOLINE-----	14,427		
	2912 JET FUEL-----	15,204		
	2914 DISTILLATE FUEL OIL-----	171,844		
	2915 RESIDUAL FUEL OIL-----	1,921		
	2916 LUBRICATING OILS AND GREASES-----	54		
	2991 PETROLEUM AND COAL PROD, NEC-----	3		
	3011 RUBBER AND MISC PLASTIC PROD-----	23		
	3241 MISC NONMETALLIC MINERAL PROD-----	27		
	3316 IRON AND STEEL PLATES, SHEETS-----	4		
	3317 IRON AND STEEL PIPE AND TUBE-----	3,985		
	3324 ALUMINUM AND ALLOYS, UNWORKED-----	1		
	3411 FABRICATED METAL PRODUCTS-----	3,626		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	2,627		
	3611 ELECTRICAL MACH AND EQUIP-----	191		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	270		
	3731 SHIPS AND BOATS-----	100		
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	7		
	3911 MISC MANUFACTURED PRODUCTS-----	54		
	4112 COMMODITIES, NEC-----	9,569		
	TOTAL-----	245,190		499
NONPROJECT				
CHATHAM STRAIT, ALASKA-----				
	0131 FRESH FRUITS-----	24		
	0141 FRESH AND FROZEN VEGETABLES-----	21		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,640		
	1402 SAND, GRAVEL, CRUSHED ROCK-----	262		
	1491 SALT-----	611		
	1492 SULPHUR, DRY-----	8,690		
	1499 NONMETALLIC MINERALS, NEC-----	1		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	21		
	2031 FISH AND SHELLFISH, PREPARED-----	19,107		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	24		
	2042 ANIMAL FEEDS-----	16		
	2081 ALCOHOLIC BEVERAGES-----	2,563		
	2094 GROCERIES-----	5,649		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	570		
	2411 LOGS-----	131,947		
	2412 RAFTED LOGS-----	194,274		
	2414 TIMBER, POSTS, POLES, PILING-----	32		
	2415 PULPMOOD, LOGS-----	16,680		
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	160,806		
	2421 LUMBER-----	2,106		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	327		
	2491 WOOD MANUFACTURES, NEC-----	1,642		
	2511 FURNITURE AND FIXTURES-----	627		
	2611 PULP-----	30,294		
	2691 PULP AND PAPER PRODUCTS, NEC-----	690		
	2711 PRINTED MATTER-----	32		
	2810 SODIUM HYDROXIDE-----	22,711		
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,045		
	2841 SOAP-----	130		
	2851 PAINTS-----	97		
	2871 NITROGENOUS CHEM FERTILIZERS-----	121		
	2879 FERTILIZER AND MATERIALS, NEC-----	169		
	2891 MISCELLANEOUS CHEMICAL PROD-----	9,619		
	2911 GASOLINE-----	7,610		
	2912 JET FUEL-----	1,355		
	2914 DISTILLATE FUEL OIL-----	26,680		
	2915 RESIDUAL FUEL OIL-----	15,138		
	2916 LUBRICATING OILS AND GREASES-----	49,283		
	2921 LIQUEFIED GASES-----	43		
	2951 ASPHALT BUILDING MATERIALS-----	36		
	2991 PETROLEUM AND COAL PROD, NEC-----	219		
	3011 RUBBER AND MISC PLASTIC PROD-----	69		
	3241 BUILDING CEMENT-----	2,847		
	3251 STRUCTURAL CLAY PRODUCTS-----	84		
	3291 MISC NONMETALLIC MINERAL PROD-----	977		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	24		
	3317 IRON AND STEEL PIPE AND TUBE-----	42		
	3319 IRON AND STEEL PRODUCTS, NEC-----	63		
	3411 FABRICATED METAL PRODUCTS-----	3,284		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	5,340		
	3611 ELECTRICAL MACH AND EQUIP-----	121		

89

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
CHATHAM STRAIT, ALASKA (CONTINUED)-----	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,557		
	3731 SHIPS AND BOATS-----	220		
	3791 MISC TRANSPORTATION EQUIPMENT-----	232		
	3911 MISC MANUFACTURED PRODUCTS-----	7		
	4011 IRON AND STEEL SCRAP-----	631		
	4112 COMMODITIES, NEC-----	15,283		
	4119 EMPTY CONTAINERS-----	514		
	TOTAL-----	746,695	29,023,517	145,027
CLARENCE STRAIT, ALASKA-----	0131 FRESH FRUITS-----	5		
	0141 FRESH AND FROZEN VEGETABLES-----	5		
	0191 MISCELLANEOUS FARM PRODUCTS-----	59		
	0861 FOREST PRODUCTS, NEC-----	14		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	9,985		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	1,103		
	1491 SALT-----	270		
	1492 SULPHUR, DRY-----	197		
	2031 FISH AND SHELLFISH, PREPARED-----	1,465		
	2042 ANIMAL FEEDS-----	62		
	2081 ALCOHOLIC BEVERAGES-----	1,723		
	2094 GROCERIES-----	9,944		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	2,119		
	2411 LOGS-----	16,546		
	2412 RAFTED LOGS-----	97,563		
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	16,028		
	2421 LUMBER-----	44,002		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	869		
	2491 WOOD MANUFACTURES, NEC-----	735		
	2511 FURNITURE AND FIXTURES-----	432		
	2691 PULP AND PAPER PRODUCTS, NEC-----	270		
	2711 PRINTED MATTER-----	16		
	2819 BASIC CHEMICALS AND PROD, NEC-----	229		
	2851 PAINTS-----	19		
	2879 FERTILIZER AND MATERIALS, NEC-----	97		
	2891 MISCELLANEOUS CHEMICAL PROD-----	2,076		
	2911 GASOLINE-----	14,039		
	2914 DISTILLATE FUEL OIL-----	43,627		
	2915 RESIDUAL FUEL OIL-----	728		
	2916 LUBRICATING OILS AND GREASES-----	208		
	2921 LIQUEFIED GASES-----	59		
	2951 ASPHALT BUILDING MATERIALS-----	15		
	2991 PETROLEUM AND COAL PROD, NEC-----	346		
	3011 RUBBER AND MISC PLASTIC PROD-----	27		
	3241 BUILDING CEMENT-----	564		
	3251 STRUCTURAL CLAY PRODUCTS-----	33		
	3291 MISC NONMETALLIC MINERAL PROD-----	755		
	3317 IRON AND STEEL PIPE AND TUBE-----	25		
	3319 IRON AND STEEL PRODUCTS, NEC-----	13		
	3411 FABRICATED METAL PRODUCTS-----	2,540		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	14,660		
	3611 ELECTRICAL MACH AND EQUIP-----	53		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,961		
	3731 SHIPS AND BOATS-----	1		
	3791 MISC TRANSPORTATION EQUIPMENT-----	203		
	3911 MISC MANUFACTURED PRODUCTS-----	46		
	4011 IRON AND STEEL SCRAP-----	3		
	4112 COMMODITIES, NEC-----	10,499		
	4119 EMPTY CONTAINERS-----	536		
	TOTAL-----	298,816	12,523,180	69,758
FREDERICK SOUND, ALASKA-----	0122 HAY AND FODDER-----	272		
	0131 FRESH FRUITS-----	29		
	0141 FRESH AND FROZEN VEGETABLES-----	26		
	0191 MISCELLANEOUS FARM PRODUCTS-----	72		
	0861 FOREST PRODUCTS, NEC-----	170		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,204		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	221		
	1451 CLAY-----	15		
	1491 SALT-----	779		
	1492 SULPHUR, DRY-----	0,690		
	1499 NONMETALLIC MINERALS, NEC-----	1		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	22		
	2031 FISH AND SHELLFISH, PREPARED-----	23,131		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	26		
	2042 ANIMAL FEEDS-----	254		
	2049 GRAIN MILL PRODUCTS, NEC-----	5		
	2081 ALCOHOLIC BEVERAGES-----	5,911		
	2094 GROCERIES-----	23,137		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	2,094		
	2211 BASIC TEXTILE PRODUCTS-----	20		
	2411 LOGS-----	131,947		
	2412 RAFTED LOGS-----	247,683		
	2414 TIMBER, POSTS, POLES, PILING-----	35		
	2415 PULPHOOD, LOGS-----	16,680		
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	160,800		
	2421 LUMBER-----	5,469		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,206		
	2491 WOOD MANUFACTURES, NEC-----	4,229		
	2511 FURNITURE AND FIXTURES-----	1,280		
	2611 PULP-----	30,294		
	2621 STANDARD NEWSPRINT PAPER-----	118		
	2691 PULP AND PAPER PRODUCTS, NEC-----	1,174		
	2711 PRINTED MAT			

Waterborne Commerce of the United States, 1986

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
FREDERICK SOUND, ALASKA (CONTINUED)	2841 SOAP-----	145		
	2851 PAINTS-----	337		
	2871 NITROGENOUS CHEM FERTILIZERS-----	121		
	2879 FERTILIZER AND MATERIALS, NEC-----	477		
	2891 MISCELLANEOUS CHEMICAL PROD-----	10,390		
	2911 GASOLINE-----	15,355		
	2912 JET FUEL-----	1,355		
	2914 DISTILLATE FUEL OIL-----	41,640		
	2915 RESIDUAL FUEL OIL-----	14,234		
	2916 LUBRICATING OILS AND GREASES-----	49,503		
	2921 LIQUEFIED GASES-----	135		
	2951 ASPHALT BUILDING MATERIALS-----	104		
	2991 PETROLEUM AND COAL PROD, NEC-----	365		
	3011 RUBBER AND MISC PLASTIC PROD-----	66		
	3211 GLASS AND GLASS PRODUCTS-----	26		
	3241 BUILDING CEMENT-----	2,217		
	3251 STRUCTURAL CLAY PRODUCTS-----	100		
	3271 LIME-----	41		
	3281 CUT STONE AND STONE PRODUCTS-----	144		
	3291 MISC NONMETALLIC MINERAL PROD-----	5,076		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	151		
	3317 IRON AND STEEL PIPE AND TUBE-----	141		
	3319 IRON AND STEEL PRODUCTS, NEC-----	92		
	3322 COPPER ALLOYS, UNWORKED-----	14		
	3411 FABRICATED METAL PRODUCTS-----	4,148		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	9,213		
	3611 ELECTRICAL MACH AND EQUIP-----	184		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	3,159		
	3731 SHIPS AND BOATS-----	300		
	3791 MISC TRANSPORTATION EQUIPMENT-----	523		
	3911 MISC MANUFACTURED PRODUCTS-----	27		
	4011 IRON AND STEEL SCRAP-----	657		
	4112 COMMODITIES, NEC-----	32,443		
	4113 LCL FREIGHT-----	8		
	4119 EMPTY CONTAINERS-----	1,019		
	TOTAL-----	886,212	33,903,044	122,687
ICY STRAIT, ALASKA-----	0129 FIELD CROPS, NEC-----	140		
	0131 FRESH FRUITS-----	71		
	0141 FRESH AND FROZEN VEGETABLES-----	1,370		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	369		
	0912 SHELLFISH, EXCEPT PREPARED-----	57		
	1091 NONFERROUS ORES, CONCENT, NEC-----	399,881		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	51		
	1451 CLAY-----	10		
	1491 SALT-----	42		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	7		
	2013 FISH AND SHELLFISH, PREPARED-----	5,449		
	2034 VEGETABLES AND PULP, NEC-----	19		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	6		
	2042 ANIMAL FEEDS-----	857		
	2049 GRAIN MILL PRODUCTS, NEC-----	142		
	2081 ALCOHOLIC BEVERAGES-----	49		
	2094 GROCERIES-----	726		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	27		
	2211 BASIC TEXTILE PRODUCTS-----	1		
	2411 LOGS-----	251,643		
	2412 RAFTED LOGS-----	76,292		
	2414 TIMBER, POSTS, POLES, PILING-----	3		
	2421 LUMBER-----	584		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	102		
	2491 WOOD MANUFACTURES, NEC-----	53		
	2511 FURNITURE AND FIXTURES-----	6		
	2631 PAPER AND PAPERBOARD-----	196		
	2691 PULP AND PAPER PRODUCTS, NEC-----	69		
	2819 BASIC CHEMICALS AND PROD, NEC-----	7		
	2851 PAINTS-----	11		
	2879 FERTILIZER AND MATERIALS, NEC-----	66		
	2891 MISCELLANEOUS CHEMICAL PROD-----	249		
	2911 GASOLINE-----	102,471		
	2912 JET FUEL-----	8,963		
	2914 DISTILLATE FUEL OIL-----	172,963		
	2915 RESIDUAL FUEL OIL-----	415		
	2991 PETROLEUM AND COAL PROD, NEC-----	1		
	3241 BUILDING CEMENT-----	6,130		
	3281 CUT STONE AND STONE PRODUCTS-----	144		
	3291 MISC NONMETALLIC MINERAL PROD-----	144		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	8		
	3317 IRON AND STEEL PIPE AND TUBE-----	21		
	3319 IRON AND STEEL PRODUCTS, NEC-----	11		
	3411 FABRICATED METAL PRODUCTS-----	80		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	568		
	3611 ELECTRICAL MACH AND EQUIP-----	26		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	60		
	3731 SHIPS AND BOATS-----	17		
	3791 MISC TRANSPORTATION EQUIPMENT-----	5		
	4112 COMMODITIES, NEC-----	8,198		
	4119 EMPTY CONTAINERS-----	3		
	TOTAL-----	1,038,787	57,578,386	343,936
LYNN CANAL, ALASKA-----	0129 FIELD CROPS, NEC-----	140		
	0131 FRESH FRUITS-----	71		
	0141 FRESH AND FROZEN VEGETABLES-----	1,370		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	287		
	0912 SHELLFISH, EXCEPT PREPARED-----	57		
	1091 NONFERROUS ORES, CONCENT, NEC-----	399,881		

ALASKA DISTRICT

91

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
LYNN CANAL, ALASKA (CONTINUED)-----				
	1402 SAND, GRAVEL, CRUSHED ROCK-----	3,451	-----	-----
	1451 CLAY-----	10	-----	-----
	1491 SALT-----	38	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	3	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	275	-----	-----
	2034 VEGETABLES AND PREP, NEC-----	19	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	0	-----	-----
	2042 ANIMAL FEEDS-----	857	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	142	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	2,313	-----	-----
	2094 GROCERIES-----	502	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	52	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	1	-----	-----
	2411 LUMBS-----	92,769	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	23	-----	-----
	2421 LUMBER-----	840	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	118	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	128	-----	-----
	2511 FURNITURE AND FIXTURES-----	42	-----	-----
	2631 PAPER AND PAPERBOARD-----	196	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	3	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	69	-----	-----
	2851 PAINTS-----	85	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	91	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	88	-----	-----
	2911 GASOLINE-----	103,712	-----	-----
	2912 JET FUEL-----	9,031	-----	-----
	2914 DISTILLATE FUEL OIL-----	173,636	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,575	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	70	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	1	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	32	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	3	-----	-----
	3241 BUILDING CEMENT-----	6,152	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	21	-----	-----
	3261 CUT STONE AND STONE PRODUCTS-----	144	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	231	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	8	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	21	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	11	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	187	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,771	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	42	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	150	-----	-----
	3731 SHIPS AND BOATS-----	26	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	29	-----	-----
	4011 IRON AND STEEL SCRAP-----	3	-----	-----
	4112 COMMODITIES, NEC-----	4,064	-----	-----
	4119 EMPTY CONTAINERS-----	168	-----	-----
	TOTAL-----	805,053	63,550,242	320,328
NIKISHKA, ALASKA-----				
	0911 FRESH FISH, EXCEPT SHELLFISH-----	11,321	-----	-----
	1311 CRUDE PETROLEUM-----	4,286,353	-----	-----
	1451 CLAY-----	489	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	348	-----	-----
	2619 BASIC CHEMICALS AND PROD, NEC-----	317,003	-----	-----
	2671 NITROGENOUS CHEM FERTILIZERS-----	302,687	-----	-----
	2911 GASOLINE-----	57,864	-----	-----
	2912 JET FUEL-----	69,651	-----	-----
	2914 DISTILLATE FUEL OIL-----	321,104	-----	-----
	2915 RESIDUAL FUEL OIL-----	1,601,110	-----	-----
	2921 LIQUEFIED GASES-----	1,080,758	-----	-----
	3241 BUILDING CEMENT-----	5,329	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	5,503	-----	-----
	4029 WASTE AND SCRAP, NEC-----	236	-----	-----
	4111 WATER-----	57,100	-----	-----
	4112 COMMODITIES, NEC-----	14,331	-----	-----
	TOTAL-----	8,130,547	-----	-----
PERIL STRAIT, ALASKA-----				
	0131 FRESH FRUITS-----	18	-----	-----
	0141 FRESH AND FROZEN VEGETABLES-----	14	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	93	-----	-----
	1442 SAND, GRAVEL, CRUSHED ROCK-----	262	-----	-----
	1491 SALT-----	607	-----	-----
	1492 SULPHUR, DRY-----	8,690	-----	-----
	1499 NONMETALLIC MINERALS, NEC-----	1	-----	-----
	2011 MEAT, FRESH, CHILLED, FROZEN-----	14	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	12,933	-----	-----
	2039 PREP FRUIT AND VEG JUICE, NEC-----	20	-----	-----
	2042 ANIMAL FEEDS-----	16	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	168	-----	-----
	2094 GROCERIES-----	5,353	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	545	-----	-----
	2412 RAFTED LOGS-----	137,655	-----	-----
	2414 TIMBER, POSTS, POLES, PILING-----	12	-----	-----
	2415 PULPMOOD, LOG-----	16,680	-----	-----
	2416 WOOD CHIPS, STAVES, MOLDINGS-----	160,800	-----	-----
	2421 LUMBER-----	1,786	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	316	-----	-----
	2491 WOOD MANUFACTURES, NEC-----	1,480	-----	-----
	2511 FURNITURE AND FIXTURES-----	615	-----	-----
	2611 PULP-----	30,294	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	684	-----	-----
	2711 PRINTED MATTER-----	32	-----	-----
	2810 SODIUM HYDROXIDE-----	22,711	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,045	-----	-----

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON-MILES	PASSENGERS
NONPROJECT--CONTINUED				
PERIL STRAIT, ALASKA (CONTINUED)	2841 SOAP-----	130		
	2851 PAINTS-----	25		
	2879 FERTILIZER AND MATERIALS, NEC-----	144		
	2891 MISCELLANEOUS CHEMICAL PROD-----	8,903		
	2911 GASOLINE-----	4,963		
	2912 JET FUEL-----	1,287		
	2914 DISTILLATE FUEL OIL-----	21,934		
	2915 RESIDUAL FUEL OIL-----	11,564		
	2916 LUBRICATING OILS AND GREASES-----	49,180		
	2921 LIQUEFIED GASES-----	28		
	2951 ASPHALT BUILDING MATERIALS-----	35		
	2991 PETROLEUM AND COAL PROD, NEC-----	120		
	3011 RUBBER AND MISC PLASTIC PROD-----	66		
	3241 BUILDING CEMENT-----	2,706		
	3251 STRUCTURAL CLAY PRODUCTS-----	63		
	3291 MISC NONMETALLIC MINERAL PROD-----	865		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	24		
	3317 IRON AND STEEL PIPE AND TUBE-----	39		
	3319 IRON AND STEEL PRODUCTS, NEC-----	33		
	3411 FABRICATED METAL PRODUCTS-----	2,952		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,876		
	3611 ELECTRICAL MACH AND EQUIP-----	108		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	1,504		
	3731 SHIPS AND BOATS-----	199		
	3791 MISC TRANSPORTATION EQUIPMENT-----	195		
	3911 MISC MANUFACTURED PRODUCTS-----	51		
	4011 IRON AND STEEL SCRAP-----	631		
	4112 COMMODITIES, NEC-----	7,675		
	4119 EMPTY CONTAINERS-----	347		
	TOTAL-----	520,242	22,192,940	4,346
PRINCE WALES IS. WEST SIDE, ALASKA	2412 RAFTED LOGS-----	435,000		
	2415 PULPMOOD, LOG-----	3,370		
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	300		
	2879 FERTILIZER AND MATERIALS, NEC-----	10		
	2891 MISCELLANEOUS CHEMICAL PROD-----	334		
	2911 GASOLINE-----	225		
	2914 DISTILLATE FUEL OIL-----	1,695		
	3411 FABRICATED METAL PRODUCTS-----	3		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	1,600		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	50		
	4112 COMMODITIES, NEC-----	370		
	TOTAL-----	442,957		
REVILLAGIGADO CHANNEL, ALASKA	0191 MISCELLANEOUS FARM PRODUCTS-----	952		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	13,380		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	1,000		
	1491 SALT-----	659		
	1492 SULPHUR, DRY-----	8,445		
	2031 FISH AND SHELLFISH, PREPARED-----	3,383		
	2049 GRAIN MILL PRODUCTS, NEC-----	23		
	2081 ALCOHOLIC BEVERAGES-----	65		
	2094 GROCERIES-----	2,848		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	16,815		
	2211 BASIC TEXTILE PRODUCTS-----	148		
	2411 LOGS-----	867,229		
	2412 RAFTED LOGS-----	503,813		
	2421 LUMBER-----	84,178		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	25		
	2491 WOOD MANUFACTURES, NEC-----	7,141		
	2511 FURNITURE AND FIXTURES-----	951		
	2611 PULP-----	153,920		
	2691 PULP AND PAPER PRODUCTS, NEC-----	3,013		
	2810 SODIUM HYDROXIDE-----	29,600		
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,810		
	2821 PLASTIC MATERIALS-----	16		
	2831 DRUGS-----	19		
	2841 SOAP-----	90		
	2879 FERTILIZER AND MATERIALS, NEC-----	194		
	2891 MISCELLANEOUS CHEMICAL PROD-----	11,624		
	2911 GASOLINE-----	27,172		
	2912 JET FUEL-----	9,294		
	2914 DISTILLATE FUEL OIL-----	74,784		
	2915 RESIDUAL FUEL OIL-----	13,414		
	2916 LUBRICATING OILS AND GREASES-----	28,398		
	2921 LIQUEFIED GASES-----	824		
	2951 ASPHALT BUILDING MATERIALS-----	34		
	2991 PETROLEUM AND COAL PROD, NEC-----	1,441		
	3011 RUBBER AND MISC PLASTIC PROD-----	473		
	3241 BUILDING CEMENT-----	3,702		
	3291 MISC NONMETALLIC MINERAL PROD-----	918		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	350		
	3317 IRON AND STEEL PIPE AND TUBE-----	203		
	3411 FABRICATED METAL PRODUCTS-----	11,830		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	7,563		
	3611 ELECTRICAL MACH AND EQUIP-----	546		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,374		
	3731 SHIPS AND BOATS-----	36		
	3791 MISC TRANSPORTATION EQUIPMENT-----	37		
	3811 LEAD, TIN, ZINC, AND OTHER GOODS-----	40		
	3911 MISC MANUFACTURED PRODUCTS-----	1,716		
	4011 IRON AND STEEL SCRAP-----	1,121		
	4112 COMMODITIES, NEC-----	5,433		
	4119 EMPTY CONTAINERS-----	151		
	TOTAL-----	1,903,202	73,676,361	161,498

ALASKA DISTRICT

93

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
NONPROJECT--CONTINUED				
STEPHENS PASSAGE, ALASKA-----	0122 HAY AND FODDER-----	272		
	0129 FIELD CROPS, NEC-----	140		
	0131 FRESH FRUITS-----	85		
	0141 FRESH AND FROZEN VEGETABLES-----	1,362		
	0191 MISCELLANEOUS FARM PRODUCTS-----	72		
	0861 FOREST PRODUCTS, NEC-----	170		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	296		
	0912 SHELLFISH, EXCEPT PREPARED-----	57		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	251		
	1451 CLAY-----	25		
	1491 SALT-----	480		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	3		
	2031 FISH AND SHELLFISH, PREPARED-----	781		
	2034 VEGETABLES AND PREP, NEC-----	19		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	4		
	2042 ANIMAL FEEDS-----	1,095		
	2049 GRAIN MILL PRODUCTS, NEC-----	147		
	2061 ALCOHOLIC BEVERAGES-----	3,396		
	2094 GROCERIES-----	17,230		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	1,554		
	2211 BASIC TEXTILE PRODUCTS-----	21		
	2411 LOGS-----	179,368		
	2412 RAFTED LOGS-----	18,302		
	2414 TIMBER, POSTS, POLES, PILING-----	9		
	2421 LUMBER-----	4,438		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,020		
	2491 WOOD MANUFACTURES, NEC-----	3,010		
	2511 FURNITURE AND FIXTURES-----	913		
	2621 STANDARD NEWSPRINT PAPER-----	118		
	2631 PAPER AND PAPERBOARD-----	196		
	2691 PULP AND PAPER PRODUCTS, NEC-----	496		
	2711 PRINTED MATTER-----	32		
	2819 BASIC CHEMICALS AND PROD, NEC-----	96		
	2821 PLASTIC MATERIALS-----	17		
	2841 SOAP-----	15		
	2851 PAINTS-----	283		
	2879 FERTILIZER AND MATERIALS, NEC-----	315		
	2891 MISCELLANEOUS CHEMICAL PROD-----	755		
	2911 GASOLINE-----	10,260		
	2912 JET FUEL-----	81		
	2914 DISTILLATE FUEL OIL-----	18,269		
	2915 RESIDUAL FUEL OIL-----	1,107		
	2916 LUBRICATING OILS AND GREASES-----	220		
	2921 LIQUEFIED GASES-----	92		
	2951 ASPHALT BUILDING MATERIALS-----	68		
	2991 PETROLEUM AND COAL PROD, NEC-----	244		
	3011 RUBBER AND MISC PLASTIC PROD-----	1		
	3211 GLASS AND GLASS PRODUCTS-----	28		
	3241 BUILDING CEMENT-----	6,623		
	3251 STRUCTURAL CLAY PRODUCTS-----	74		
	3271 LIME-----	41		
	3291 CUT STONE AND STONE PRODUCTS-----	144		
	3291 MISC NONMETALLIC MINERAL PROD-----	4,478		
	3315 IRON, STEEL SHAPES, EXC SHEET-----	143		
	3317 IRON AND STEEL PIPE AND TUBE-----	134		
	3319 IRON AND STEEL PRODUCTS, NEC-----	56		
	3322 COPPER ALLOYS, UNWORKED-----	14		
	3411 FABRICATED METAL PRODUCTS-----	2,348		
	3511 MACHINERY, EXCEPT ELECTRICAL-----	4,267		
	3611 ELECTRICAL MACH AND EQUIP-----	124		
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,127		
	3731 SHIPS AND BOATS-----	157		
	3791 MISC TRANSPORTATION EQUIPMENT-----	402		
	3911 MISC MANUFACTURED PRODUCTS-----	22		
	4011 IRON AND STEEL SCRAP-----	205		
	4112 COMMODITIES, NEC-----	16,249		
	4113 LCL FREIGHT-----	8		
	4119 EMPTY CONTAINERS-----	547		
	TOTAL-----	305,310	15,938,146	198,817
SUMNER STRAIT ALASKA-----	0122 HAY AND FODDER-----	272		
	0131 FRESH FRUITS-----	20		
	0141 FRESH AND FROZEN VEGETABLES-----	19		
	0191 MISCELLANEOUS FARM PRODUCTS-----	194		
	0861 FOREST PRODUCTS, NEC-----	170		
	0911 FRESH FISH, EXCEPT SHELLFISH-----	3,608		
	1442 SAND, GRAVEL, CRUSHED ROCK-----	12,871		
	1451 CLAY-----	15		
	1491 SALT-----	602		
	1492 SULPHUR, DRY-----	6,690		
	1499 NONMETALLIC MINERALS, NEC-----	1		
	2011 MEAT, FRESH, CHILLED, FROZEN-----	21		
	2031 FISH AND SHELLFISH, PREPARED-----	16,583		
	2039 PREP FRUIT AND VEG JUICE, NEC-----	26		
	2042 ANIMAL FEEDS-----	254		
	2049 GRAIN MILL PRODUCTS, NEC-----	5		
	2081 ALCOHOLIC BEVERAGES-----	5,921		
	2094 GROCERIES-----	24,606		
	2099 MISCELLANEOUS FOOD PRODUCTS-----	6,440		
	2211 BASIC TEXTILE PRODUCTS-----	35		
	2411 LOGS-----	42,803		
	2412 RAFTED LOGS-----	6,095		
	2414 TIMBER, POSTS, POLES, PILING-----	42		
	2415 PULPMOOD, LOG-----	22,329		
	2416 WOOD CHIPS, STAVES, HOLDINGS-----	176,828		
	2421 LUMBER-----	138,686		
	2431 VENEER, PLYWOOD, WORKED WOOD-----	1,175		

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
NONPROJECT--CONTINUED				
SUMNER STRAIT ALASKA (CONTINUED)-----				
	2491 FOOD MANUFACTURES, NEC-----	4,565	-----	-----
	2511 FURNITURE AND FIXTURES-----	1,312	-----	-----
	2611 PULP-----	30,294	-----	-----
	2621 STANDARD NEWSPRINT PAPER-----	118	-----	-----
	2631 PAPER AND PAPER PRODUCTS, NEC-----	5	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	1,256	-----	-----
	2711 PREPARED MATER-----	16	-----	-----
	2810 SODIUM HYDROXIDE-----	22,711	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,642	-----	-----
	2821 PLASTIC MATERIALS-----	81	-----	-----
	2841 SOAP-----	145	-----	-----
	2851 PAINTS-----	342	-----	-----
	2871 NITROGENOUS CHEM FERTILIZERS-----	121	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	477	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	10,645	-----	-----
	2911 GASOLINE-----	18,242	-----	-----
	2912 JET FUEL-----	1,561	-----	-----
	2914 DISTILLATE FUEL OIL-----	54,795	-----	-----
	2915 RESIDUAL FUEL OIL-----	14,273	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	49,021	-----	-----
	2918 ASPHALT, TAR, AND BITUMENS-----	2,000	-----	-----
	2921 LIQUEFIED GASES-----	135	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	104	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	495	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	128	-----	-----
	3211 GLASS AND GLASS PRODUCTS-----	28	-----	-----
	3241 BUILDING CEMENT-----	3,261	-----	-----
	3251 STRUCTURAL CLAY PRODUCTS-----	92	-----	-----
	3271 LIME-----	41	-----	-----
	3281 CUT STONE AND STONE PRODUCTS-----	144	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	5,336	-----	-----
	3314 IRON AND STEEL PRIMARY FORMS-----	3	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	103	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	132	-----	-----
	3319 IRON AND STEEL PRODUCTS, NEC-----	79	-----	-----
	3322 COPPER ALLOYS, UNALLOYED-----	15	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	7,493	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	15,451	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	320	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	3,653	-----	-----
	3731 SHIPS AND BOATS-----	224	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	537	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	484	-----	-----
	4011 IRON AND STEEL SCRAP-----	461	-----	-----
	4112 COMMODITIES, NEC-----	33,323	-----	-----
	4113 LCL FREIGHT-----	8	-----	-----
	4119 EMPTY CONTAINERS-----	1,048	-----	-----
	TOTAL-----	755,911	38,779,180	79,774
TONGASS NARROWS, ALASKA-----				
	0191 MISCELLANEOUS FARM PRODUCTS-----	952	-----	-----
	0911 FRESH FISH, EXCEPT SHELLFISH-----	7,536	-----	-----
	1402 SAND, GRAVEL, CRUSHED ROCK-----	3,800	-----	-----
	1491 SALT-----	659	-----	-----
	1492 SULPHUR, DRY-----	8,642	-----	-----
	2031 FISH AND SHELLFISH, PREPARED-----	4,110	-----	-----
	2049 GRAIN MILL PRODUCTS, NEC-----	23	-----	-----
	2081 ALCOHOLIC BEVERAGES-----	65	-----	-----
	2094 GROCERIES-----	2,848	-----	-----
	2099 MISCELLANEOUS FOOD PRODUCTS-----	16,845	-----	-----
	2211 BASIC TEXTILE PRODUCTS-----	148	-----	-----
	2411 LOGS-----	867,229	-----	-----
	2412 RAFTED LOGS-----	527,438	-----	-----
	2418 WOOD CHIPS, STAVES, HOLDINGS-----	85,782	-----	-----
	2421 LUMBER-----	84,178	-----	-----
	2431 VENEER, PLYWOOD, WORKED WOOD-----	23	-----	-----
	2491 FOOD MANUFACTURES, NEC-----	7,603	-----	-----
	2511 FURNITURE AND FIXTURES-----	958	-----	-----
	2611 PULP-----	153,920	-----	-----
	2691 PULP AND PAPER PRODUCTS, NEC-----	3,013	-----	-----
	2810 SODIUM HYDROXIDE-----	29,600	-----	-----
	2819 BASIC CHEMICALS AND PROD, NEC-----	1,936	-----	-----
	2821 PLASTIC MATERIALS-----	16	-----	-----
	2831 DRUGS-----	19	-----	-----
	2841 SOAP-----	90	-----	-----
	2879 FERTILIZER AND MATERIALS, NEC-----	62	-----	-----
	2891 MISCELLANEOUS CHEMICAL PROD-----	10,001	-----	-----
	2911 GASOLINE-----	41,364	-----	-----
	2912 JET FUEL-----	9,294	-----	-----
	2914 DISTILLATE FUEL OIL-----	119,551	-----	-----
	2915 RESIDUAL FUEL OIL-----	14,180	-----	-----
	2916 LUBRICATING OILS AND GREASES-----	28,398	-----	-----
	2921 LIQUEFIED GASES-----	829	-----	-----
	2951 ASPHALT BUILDING MATERIALS-----	34	-----	-----
	2991 PETROLEUM AND COAL PROD, NEC-----	1,442	-----	-----
	3011 RUBBER AND MISC PLASTIC PROD-----	473	-----	-----
	3241 BUILDING CEMENT-----	3,703	-----	-----
	3291 MISC NONMETALLIC MINERAL PROD-----	916	-----	-----
	3315 IRON, STEEL SHAPES, EXC SHEET-----	350	-----	-----
	3317 IRON AND STEEL PIPE AND TUBE-----	203	-----	-----
	3411 FABRICATED METAL PRODUCTS-----	11,836	-----	-----
	3511 MACHINERY, EXCEPT ELECTRICAL-----	18,376	-----	-----
	3611 ELECTRICAL MACH AND EQUIP-----	544	-----	-----
	3711 MOTOR VEHICLES, PARTS, EQUIP-----	2,941	-----	-----
	3731 SHIPS AND BOATS-----	44	-----	-----
	3791 MISC TRANSPORTATION EQUIPMENT-----	112	-----	-----
	3811 INSTR, TIME, PHOTO, OPT GOODS-----	40	-----	-----
	3911 MISC MANUFACTURED PRODUCTS-----	1,716	-----	-----

OTHER HARBORS AND WATERWAYS--CONTINUED

HARBOR OR WATERWAY	COMMODITY	TONS	TOTAL TON- MILES	PASSENGERS
NONPROJECT--CONTINUED				
TONGASS HARBOR, ALASKA (CONTINUED)-----	4011 IRON AND STEEL SCRAP-----	1,121	-----	-----
	4112 COMMODITIES, NEC-----	5,908	-----	-----
	4119 EMPTY CONTAINERS-----	211	-----	-----
	TOTAL-----	2,081,080	12,243,801	165,611

SECTION 2
TRIPS AND DRAFTS OF VESSELS

LOS ANGELES, CA, DISTRICT

99

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
SAN DIEGO HARBOR, CALIF.												
40		2				2						
38		2				2						
37		1				1						
35		3				3						
33		1				1						
32												
31	5					5						
30	2	1				3						
29	5					5						
28	5					5						
27	26					26						
26	71	1				72						
25	14	1				15						
24	10	1				11						
23	18	2				20						
22	16					16						
21	16					16						
20	20					20						
19	17	1			1	18						
18 AND LESS	3,921		1,295	614	20	5,850	3,961	7	1,301	614	21	5,904
TOTAL	4,149	16	1,295	614	21	6,095	4,190	16	1,301	614	21	6,102
LONG BEACH HARBOR, CALIF.												
42		1				1						
41		1				1						
40		7				7						
39		3				3						
38	1	11				12						
37	1	10				11						
36		7				7						
35		3				3						
34		5				5						
33		9				9						
32		4				4						
31		3				3						
30		2				2						
29		6				6						
28	1	4				5						
27		1				1						
26		1				1						
25		1				1						
24		9				9						
23	1	11				12						
22	2	2				4						
21	11	10				21						
20	51	4				55						
19	134	18				152						
18	66	12				78						
17	62	17				79						
16	69	24				93						
15	76	18				94						
14	102	26				128						
13	125	44				169						
12	153	43				196						
11	168	39				207						
10	121	33				154						
9	156	29				185						
8	158	12				170						
7	151	14				165						
6	131	11				142						
5	147	13				160						
4	125	17				142						
3	115	14				129						
2	85	11				96						
1	49	8				57						
0	51	6				57						
19	20	4				24						
18 AND LESS	19,869	37	15,909	145	3,174	39,064	19,783	52	15,912	141	3,111	38,999
TOTAL	22,232	580	15,921	154	3,174	42,061	22,233	573	15,926	151	3,173	42,056
LOS ANGELES HARBOR, CALIF.												
51		3				3						
50		1				1						
49		2				2						
48		2				2						
47		2				2						
46		1				1						
45		3				3						
44		5				5						
43	1	4				5						
42												
41	1	2				3						
40	11	2				13						
39	32	5				37						
38	31	17				48						
37	48	20				68						
36	72	34				106						
35	117	32				149						
34	112	36				148						

* EXCLUDES DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

[illegible]

SACRAMENTO, CA, DISTRICT

101

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		
DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
SACRAMENTO RIVER, CALIF.												
29 -	3	5		UPBOUND			19	1		DOWNBOUND		
28 -	10					10	11					20
27 -	2	1				3	8					11
26 -	3					3	1			7		8
25 -	2			7		9	3					8
24 -	2					2	3					3
23 -	4	1				5	2	1				3
22 -	2					2	5	3		2		10
21 -	4	1				5	3	2				5
20 -	2	1	4			6	1		4	3		7
19 -	3					3				1		3
18 -	3					3						
17 -	2					2						
16 -	3		2			5			1			1
15 -			5	2		7						6
14 -	1		1			2			1			1
13 -			1	1		2			1	3	1	5
12 -			2			2			2			2
11 -			2	19		21			2	4		6
10 -			4	107		111			4	8		12
9 -			5	12		17			5	1		6
8 -			123	6		129			122	17		159
7 -	31					31	35					35
6 AND LESS -	96		5		1	153	42		4	159		245
TOTAL -	173	8	154	205	1	541	173	8	152	205	1	539
SACRAMENTO RIVER DEEPWATER SHIP CHANNEL, CALIF.												
30 -	1	4		UPBOUND			15	1		DOWNBOUND		
29 -	2	1				3	4					16
28 -	7					7	7					4
27 -	5	1				6	5					7
26 -	3					3	1			1		5
25 -	2			12		14	3					2
24 -	2					2	3					3
23 -	4					4	2	1				3
22 -	2					2	5	3		1		9
21 -	4	1				5	3	2				5
20 -	2		3			5			3	2		5
19 -	3	1				4	1	1		1		3
18 -	3					3						
17 -	2					2						
16 -	3					3						
15 -			5	2		7			5			5
14 -	1		1			2						
13 -			1	1		2			1			1
12 -			1			1						
11 -			2			2			2			2
10 -									2	3		5
9 -									2			2
8 -			1			1			1	8		1
7 -				18		18				16		16
6 AND LESS -												
TOTAL -	46	8	14	33		101	49	8	14	32		103
SACRAMENTO, CALIF.												
30 -	1	4		INBOUND			15	1		OUTBOUND		
29 -	2	1				3	4					16
28 -	7					7	7					4
27 -	5	1				6	5					7
26 -	3					3	1			1		5
25 -	2			12		14	3					2
24 -	2					2	3					3
23 -	4					4	2	1				3
22 -	2	1		1		4	5	2		1		8
21 -	4	1				5	3	3				6
20 -	2		3			5			3	3		6
19 -	3					3	1	1		1		3
18 -	3					3						
17 -	2					2						
16 -	3		1			4			1			1
15 -			5	2		7			6			6
14 -	1		1			2						
13 -			1	1		2				1		1
12 -			2			2						
11 -			2			2			2			2
10 -			2			2			4	1		5
9 -			1			1			1			1
8 -												
7 -	31					31	31					31
6 AND LESS -	56		1	5	1	63	56		1	14		71
TOTAL -	133	8	19	21	1	162	136	8	18	21	1	164
SAN JOAQUIN RIVER, CALIF.												
31 -	30	7		UPBOUND			33	1		DOWNBOUND		
30 -	6	2				8	12	1				34
29 -	2	2				4	5	1				13
28 -	3					4	2					6
27 -	3	2				5	1	1				4
26 -	6					6	3	1				4

* EXCLUDES DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					TOTAL	DIRECTION			TOTAL		
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			SELF PROPELLED VESSELS				NON SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		DRY CARGO	TANKER
SAN JOAQUIN RIVER, CALIF.--(CONTINUED)				UPBOUND						DOWNBOUND		
25 -	7	1				8	2	3				5
24 -	3	1				4	3	3				6
23 -	3	1				4	4	3				7
22 -	2					2	3	1				4
21 -	2					2	6	2				8
20 -	5					5	1					1
19 -	2					2	3					3
18 -	1				2	3	1				2	3
17 -	1			1		2	2					2
16 -	3		4	1	2	10			2		2	4
15 -			5	63	5	73	1		2	63	2	68
14 -	2					2				2		2
13 -			5			5			1	8	1	10
12 AND LESS -	69		305	363	7	744	70	1	314	356	10	751
TOTAL -	150	17	319	428	16	930	152	18	319	429	17	935
STOCKTON, CALIF.				INBOUND						OUTBOUND		
29 -	9	10				19	14	3				17
28 -	1	1				2						2
27 -	1	2				3	1	1				2
26 -	5					5	1					1
25 -	3	1				4		3				3
24 -	3					3	1	2				3
23 -							2	3				5
22 -	2					2	2					2
21 -							3	2				5
20 -	2					2	1					1
19 -							2					2
18 AND LESS -	73		14	4		91	72		13	4		89
TOTAL -	99	14	14	4		131	99	14	13	4		130
MIDDLE RIVER, CALIF.				UPBOUND						DOWNBOUND		
TOTAL, 10 AND LESS -			16	21		37			16	20		36
WOKELUNNE RIVER, CALIF.				UPBOUND						DOWNBOUND		
TOTAL, 11 AND LESS -	1		36	40		77			36	40		76
OLD RIVER, CALIF.				UPBOUND						DOWNBOUND		
TOTAL, 10 AND LESS -			12	52		64			11	48		59
* EXCLUDES DOMESTIC FISHING CRAFT.												

SAN FRANCISCO, CA, DISTRICT

103

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	DRAFT (FEET)	SELF PROPELLED VESSELS			TOTAL	NON-SELF PROPELLED VESSELS			TOTAL	
		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		DRY CARGO	TANKER	TOWBOAT OR TUGBOAT		
SAN FRANCISCO BAY ENTRANCE, CALIF.										
51 -			4		4					
50 -			30		30					
49 -			1		1					
48 -			1		1					
47 -			1		1					
46 -			5		5					
45 -			4		4					
44 -			30		30					
43 -			23		23					
42 -			11		11					
41 -			15		15					
40 -		1	13		14					
39 -		3	6		9					
38 -		10	19		29					
37 -		17	22		39					
36 -		29	33		62					
35 -		58	31		89					
34 -		73	25		98					
33 -		106	30		136					
32 -		181	29		210					
31 -		204	34		238					
30 -		212	42		254					
29 -		179	36		215					
28 -		214	37		251					
27 -		205	64		270					
26 -		217	43		260					
25 -		196	61		257					
24 -		178	40		218					
23 -		137	39		176					
22 -		123	20		143					
21 -		100	18		118					
20 -		82	16		98					
19 -		63	14		77					
18 AND LESS -		144	94	258	496					
TOTAL -		2,732	890	292	3,914					
SAN FRANCISCO HARBOR, CALIF.										
44 -			1		1					
42 -			1		1					
38 -			1		1					
37 -		1	1		2					
36 -		1	1		2					
35 -		3	3		6					
34 -		4	1		5					
33 -		8	8		16					
32 -		15	15		30					
31 -		25	25		50					
30 -		29	2		31					
29 -		30	3		33					
28 -		39	2		41					
27 -		51	2		53					
26 -		49	2		51					
25 -		54	3		57					
24 -		43	1		44					
23 -		41	3		44					
22 AND LESS -		15,473	10	2,107	17,590					
TOTAL -		15,466	31	2,107	17,604					
REDWOOD CITY HARBOR, CALIF.										
30 -			1		1					
28 -		1	1		2					
27 -		1	1		2					
25 -		1	1		2					
24 -		1	1		2					
22 AND LESS -		4	150	123	277					
TOTAL -		7	2	150	159					
OAKLAND HARBOR, CALIF.										
35 -		101			101					
34 -		66			66					
33 -		95			95					
32 -		129			129					
31 -		154			154					
30 -		154			154					
29 -		133			133					
28 -		143	1		144					
27 -		126	2		128					
26 -		102	1		103					
25 -		84			84					
24 -		71			71					
23 -		51			51					
22 AND LESS -		204	3	3,254	3,461					
TOTAL -		1,613	7	3,254	4,874					

* EXCLUDED DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

SAN FRANCISCO, CALIF., DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	TOTAL	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	TOTAL	TOTAL
RICHMOND HARBOR, CALIF.										
				INBOUND					OUTBOUND	
30 -	22	193			215	21	136			157
29 -	4	12			16	2	13			15
28 -	14	18			32	8	20		1	29
27 -	9	24		1	34	7	16			23
26 -	32	22			54	17	21			38
25 -	19	21			40	21	19			40
24 -	23	18		1	42	23	18		1	42
23 -	18	11			30	19	11			30
22 AND LESS -	34	50	1,713	447	2,560	57	115	1,714	448	2,651
TOTAL -	175	369	1,713	447	3,023	175	369	1,714	449	3,025
SAN PABLO BAY AND MARE ISLAND STRAIT, CALIF.										
				UPBOUND					DOWNBOUND	
46 -		1			1		1			1
45 -		1			1					
44 -		6			6		4			4
43 -		5			5					
42 -		1			1		4			4
41 -		1			1		1			1
40 -		1			1	1	3			4
39 -		2			2	1	5			6
38 -		5			5	2	30			32
37 -		18			18		24			24
36 -		30			30	17	19			36
35 -	2	26		5	33	2	28			30
34 -	3	23			26	1	25			26
33 -	3	31			34	4	26			30
32 -	27	64			93	18	43			61
31 -	14	64			78	15	49			64
30 -	20	34			54	21	34			55
29 -	12	30			42	15	30			45
28 -	23	28			51	19	33			52
27 -	20	50			70	14	29			43
26 -	33	43			76	25	47		1	73
25 -	40	42		12	94	28	32			61
24 -	39	29			70	31	23		1	60
23 -	27	27			59	28	21		1	50
22 AND LESS -	151	136	1,642	734	3,068	172	188	1,642	749	3,187
TOTAL -	414	700	1,642	751	3,949	414	699	1,642	751	3,949
CARQUINEZ STRAIT, CALIF.										
				UPBOUND					DOWNBOUND	
33 -	8	126		5	139	28	133			161
32 -	27	54			81	18	31			49
31 -	13	52			65	16	38			54
30 -	19	29			48	22	27			49
29 -	12	23			35	15	22			37
28 -	23	17			40	19	25			44
27 -	20	34			50	14	23			37
26 -	33	20			53	25	33		1	59
25 -	40	23		12	75	28	17			46
24 -	39	18			58	31	17		1	52
23 -	27	21			48	28	16		1	45
22 AND LESS -	153	112	1,609	741	3,082	169	143	1,609	756	3,141
TOTAL -	414	525	1,609	758	3,775	413	525	1,609	758	3,774
SUISUN BAY CHANNEL, CAL.										
				UPBOUND					DOWNBOUND	
36 -		1			1	7	6			13
35 -					1	1	3			4
34 -		1			1	1	5			6
33 -		2			2	3	2			5
32 -	24	6			30	14	11			25
31 -	6	8			14	17	23			40
30 -	7	5			12	19	7			26
29 -	6	7			13	8	7			15
28 -	10	3			13	9	15			24
27 -	7	7			14	7	4			11
26 -	10	2			12	4	5		1	10
25 -	9	4		12	25	5	3			9
24 -	5	6			11	7	4		1	11
23 -	7	6			13	6	7		1	14
22 -	6	1			7	6	3		3	12
21 -	7				7	8	5			13
20 -	7	1	4		12	1		2	3	6
19 -	5	1		1	7	4	1		50	56
18 AND LESS -	85	50	646	661	1,505	73	4	648	616	1,399
TOTAL -	201	111	650	674	1,649	200	115	650	674	1,649
HUMBOLDT HARBOR AND BAY, CALIF.										
				INBOUND					OUTBOUND	
35 -						2				2
34 -	1				1	2				2
33 -	2				2	2				2
32 -	2				2	5				5
31 -	1				1	13				13
30 -	2	1			3	7				7
29 -	7	1			8	2				2
28 -	1	2			3	7				7

* EXCLUDES DOMESTIC FISHING CRAFT.

TANKERS WITH EXTREME DRAFTS WERE LIGHTERED FROM ANCHORAGES IN SAN FRANCISCO BAY DEEPWATER AREA.

105

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
UMBOLDT HARBOR AND BAY, CALIF.--(CONTINUED)												
27 - - - - -		5				15	10	2				12
26 - - - - -		10				9	11	4				15
25 - - - - -		13	2			15	10	2				12
24 - - - - -		16	1			18	11	4				15
23 - - - - -		15			1	15	9	4				13
22 - - - - -		9				9	3					3
21 - - - - -		3				3	1					1
20 - - - - -		6				6	2					2
19 - - - - -		3				3	1					1
18 AND LESS - - - - -		6	1,261	60	43	1,370	3		1,262	60	43	1,368
TOTAL - - - - -	102	16	1,261	60	44	1,483	101	16	1,262	60	43	1,482
BERKELEY, CALIF.												
TOTAL, 7 AND LESS - - - - -	696					696	696					696
BODEGA BAY, CALIF.			NO VESSEL TRIPS REPORTED									
CRESCENT CITY HARBOR, CALIF.												
TOTAL, 15 AND LESS - - - - -			2			2			2			2
HALF MOON BAY, CALIF.												
TOTAL, 8 AND LESS - - - - -			1			2			1			3
MONTEREY HARBOR, CALIF.												
TOTAL, 7 AND LESS - - - - -			1			2			1			3
MOSS LANDING HARBOR, CALIF.*												
TOTAL, 4 AND LESS - - - - -			1		2	3			1		1	2
NAPA RIVER, CALIF.												
TOTAL, 11 AND LESS - - - - -			18		19	37			20			38
NOYO RIVER, CALIF.			NO VESSEL TRIPS REPORTED									
PETALUMA RIVER, CALIF.												
TOTAL, 12 AND LESS - - - - -			118		125	243			121			245
SAN RAFAEL CREEK, CALIF.												
TOTAL, 7 AND LESS - - - - -			4			4			4			4
SANTA CRUZ HARBOR, CALIF.			NO VESSEL TRIPS REPORTED									
QUISUN CHANNEL, CALIF.												
TOTAL, 7 AND LESS - - - - -			16		16	32			16			32
OTHER SAN FRANCISCO BAY AREA PORTS, CALIF.												
TOTAL, 45 AND LESS - - - - -	11,263	348	2,451	1,899	256	16,217	11,262	348	2,452	1,898	256	16,216
* EXCLUDES DOMESTIC FISHING CRAFT.												
* DEEP DRAFT VESSELS DISCHARGE PETROLEUM PRODUCTS AT AN OCEAN PIPE LINE ADJACENT TO THE HARBOR.												

Waterborne Commerce of the United States, 1986

PACIFIC OCEAN DIVISION

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
HILO HARBOR, HAWAII, HAWAII				INBOUND						OUTBOUND		
33 -								1				1
30 -				1		2				1		1
29 -						1		1				1
28 -						2	1					1
27 -								1				1
26 -						1	2					2
25 -								1		3		4
24 -										1		1
23 -						1	2					2
22 -												
21 -				29		30	1			28		29
20 -				1		2						
19 -				1		1				3		3
18 AND LESS -	2					2	2			1		3
TOTAL -	31		296	315	71	713	28		291	312	71	702
TOTAL -	38	4	296	347	71	756	36	4	291	340	71	751
KAWAIAE HARBOR, HAWAII, HAWAII				INBOUND						OUTBOUND		
35 -							2			4		6
34 -						1	2					2
31 -								1				1
30 -						1				1		1
28 -				1		4		1				1
26 -						2						
25 -				4		4	1					1
18 AND LESS -	1		165	266	7	439	1		164	267	7	439
TOTAL -	6	2	165	271	7	451	6	2	164	272	7	451
KAMULUI HARBOR, MAUI, HAWAII				INBOUND						OUTBOUND		
34 -							1					1
33 -							1	2				3
32 -						2						
31 -						3	2	1				3
30 -							3					3
29 -							1					1
28 -						2	3			1		4
27 -						3	2	2				4
26 -						1	1	3		1		5
25 -						2	1			1		2
24 -						5	4					4
23 -						3	2					2
22 -												
21 -				42		44				38		38
20 -						2	2					2
19 -						2						
18 AND LESS -	6		437	582	79	1,104	2		440	583	78	1,103
TOTAL -	26	8	437	625	79	1,177	25	8	440	626	78	1,177
BARBERS POINT HARBOR, OAHU, HAWAII				INBOUND						OUTBOUND		
47 -		17				17						
46 -		4				4						
45 -		3				3						
44 -		7				7						
43 -		10				10		1				1
42 -		3				3						
41 -		3				3						
40 -		9				9		1				1
39 -		2				2	1	1				2
38 -		1				1		1				1
37 -		1				1		1				1
36 -		1				1						
35 -		4				4						
34 -								3				3
33 -								1				1
32 -								2				2
31 -								4				4
30 -		1				1		23				23
29 -		2				2		6				6
28 -		2				2		2				2
27 -								5				5
26 -		2				2		4				4
25 -								4				4
24 -								4				4
23 -												
22 -											2	2
21 -		1				1						
20 -		1				1						
19 -								1				1
18 AND LESS -	1		29	14	15	45	1		29	9	65	93
TOTAL -	1	76	350	6	102	535	2	77	342	9	98	528
HONOLULU HARBOR, OAHU, HAWAII				INBOUND						OUTBOUND		
37 -		10				13		1				1
36 -		5				9	1	1		1		3

* EXCLUDES DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

107

HARBOR OR WATERWAY	DIRECTION					DIRECTION					TOTAL	
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER
HONOLULU HARBOR, OAHU, HAWAII--(CONTINUED)												
					INBOUND						OUTBOUND	
35 -	15	2				17	0	1			5	12
34 -	33	4				37	0	1				10
33 -	74	6				80	20	2				22
32 -	35	5				35	10					10
31 -	33	5				30	20	7				20
30 -	31	2				32	0	1				34
29 -	22	1				25	10	5				20
28 -	22	2				171	102	0				106
27 -	119	1				42	17	5				45
26 -	32	2			2	30	00	5				52
25 -	31	1			1	32	03	3				46
24 -	20	7			5	33	02	5				47
23 -	10	1				31	30	5	1			34
22 -	15	2			05	02	20	0		71		05
21 -	15	2	1			14	12	2	2			16
20 -	7	2	10			20	0	2	17			27
19 -	10		1			11	10	1	2	0		17
18 AND LESS -	1,720	2	1,705	2,103	035	0,025	1,720		1,701	2,005	030	0,015
TOTAL -	2,272	51	1,703	2,174	035	0,715	2,072	51	1,703	2,174	035	0,715
HAWAIIAN ISLANDS, KAUAI, HAWAII												
					INBOUND						OUTBOUND	
32 -							1					1
30 -	1					1						3
29 -							2					1
28 -												1
25 -												3
21 -	1				1	2						3
20 -					2	2						
19 -					2	2						
18 AND LESS -	0		212	355	20	000	5		210	355	27	007
TOTAL -	0		212	300	20	007	0		210	301	27	006
KAHOLAWE HARBOR, KAUAI, HAWAII												
					INBOUND						OUTBOUND	
TOTAL, 15 AND LESS -			1	1		2			1			2
KAILUA HARBOR, OAHU, HAWAII												
NO VESSEL TRIPS REPORTED												
KALAUPAPA HARBOR, MOLOKAI, HAWAII												
					INBOUND						OUTBOUND	
TOTAL, 12 AND LESS -			0	0		0			0			0
KAUNAKAKAI HARBOR, MOLOKAI, HAWAII												
					INBOUND						OUTBOUND	
TOTAL, 22 AND LESS -			205	300	7	000			203	300	0	007
PORT ALLEN HARBOR, KAUAI, HAWAII												
					INBOUND						OUTBOUND	
TOTAL, 24 AND LESS -		1	7	1	3	12	3	1	0	1	2	13
MAKE ISLAND HARBOR, MAKE ISLAND												
					INBOUND						OUTBOUND	
TOTAL, 10 AND LESS -			2		1	3			2		1	3
NELLS HARBOR, MIDWAY ISLAND												
					INBOUND						OUTBOUND	
TOTAL, 10 AND LESS -			0		3	7			0		3	7
KAUNALAPAU HARBOR, LANAI, HAWAII												
					INBOUND						OUTBOUND	
TOTAL, 12 AND LESS -	550		274	202		1,010	550					

Waterborne Commerce of the United States, 1986

WALLA WALLA, WA, DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TUGBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL	PASSENGER AND DRY CARGO	TANKER	TUGBOAT OR TUGBOAT	DRY CARGO	TANKER	TOTAL
COLUMBIA RIVER AND TRIBUTARIES ABOVE McNARY LOCK AND DAM TO KENNEWICK, WASH.												
14 - - - - -				UPBOUND						DOWNBOUND		
13 - - - - -				48	216	264				41	190	231
12 - - - - -				10	3	13				143	6	149
11 - - - - -	45	1	1,436	1,067	604	3,153	45	1	1,436	941	627	3,050
10 - - - - -												
9 - - - - -												
8 - - - - -												
7 - - - - -												
6 - - - - -												
5 - - - - -												
4 - - - - -												
3 - - - - -												
2 - - - - -												
1 - - - - -												
TOTAL - - - - -	45	1	1,436	1,125	623	3,430	45	1	1,436	1,125	623	3,430
SNAKE RIVER, OREG., WASH., AND IDAHO												
14 - - - - -				UPBOUND						DOWNBOUND		
13 - - - - -				50	9	59		563		64	122	740
12 - - - - -				175	1	176				136	3	139
11 - - - - -				364	102	466		1	307	364	251	1,003
10 - - - - -				520	15	535				520	34	563
9 - - - - -				195	24	219				195	107	303
8 - - - - -		564		53	91	144				47	36	74
7 - - - - -				412	37	449				412	90	503
6 - - - - -	40			26	21	47	30			21	65	125
5 - - - - -				13		13	1			17	5	23
4 - - - - -										4	1	5
3 - - - - -										120		120
2 - - - - -				222		222				222		222
1 - - - - -	64			155		155	5			183		188
	3			202	232	434	64			165	58	200
TOTAL - - - - -	111	564	1,731	1,472	494	4,372	111	564	1,731	1,472	494	4,372

PORTLAND, OR, DISTRICT

109

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
DRAFT (FEET)										
COLUMBIA RIVER ENTRANCE, OREG. AND WASH.										
40 -				UPBOUND					DOWNBOUND	
39 -	2	1				26	1			27
38 -	3	6				39	2			41
37 -	9	2				47	2			49
36 -	3	4				35				35
35 -	15	10				67				67
34 -	22	5				92	2			94
33 -	45	8				113	2			115
32 -	52	11				93	2			95
31 -	41	13				180	5			193
30 -	59	17				113	2			115
29 -	93	9				74	11			85
28 -	69	15				74	6			80
27 -	88	7				81	7			88
26 -	45	14				85	8			93
25 -	106	13				73	9		1	83
24 -	129	10		12		79	20		1	100
23 -	143	6		2	4	67	10			78
22 -	148	5		1		73	12		3	88
21 -	160	2				76	12			88
20 -	139	6	34	29		48	12		2	62
19 -	132	1	5			56	10	25	5	96
18 AND LESS -	16,861	8	233	80	116	20	5	8		37
TOTAL -	18,402	174	272	124	120	17,298	16,775	33	246	17,289
COLUMBIA RIVER, MOUTH TO INTERNATIONAL BOUNDARY										
40 -	5	8		UPBOUND					DOWNBOUND	
37 -	9	2				112	5			117
36 -	3	4				35				35
35 -	15	10				67				67
34 -	22	5				92	3			95
33 -	45	8				113	2			115
32 -	52	12				93	2			95
31 -	41	14				189	5			194
30 -	59	16				113	2			117
29 -	93	9				75	12			87
28 -	69	16				78	6			88
27 -	88	8				89	7			96
26 -	85	15				87	8			95
25 -	106	13		12		75	9		1	85
24 -	128	10		2	4	79	20		2	100
23 -	143	8				67	10			78
22 -	148	5		1		73	12		3	88
21 -	160	2		22		76	12			88
20 -	139	6	46	29		48	12		3	63
19 -	132	1	5			56	10	45	5	116
18 -	131	3	43		50	28	5	4		37
17 -	37	1	15	2		46	6	34	23	109
16 -	13	1	13	2	24	7	10	10	2	30
15 -	4	1	262	18	8	9	5	25	3	43
14 -	2		53	82	224	313	1	275	36	322
13 -	1		70	32	232	343	2	53	154	388
12 -	2		474	234	263	232		106	250	61
11 -			1,855	23	16	973	1	518	593	326
10 -	1		1,498	485	120	1,894		1,055	115	21
9 -	112	2	2,040	399	248	2,001	58	1,498	233	80
8 -	23,344		3,334	364	108	27,150	1	2,000	490	144
7 -	105		3,934	705	19	4,743	53	3,334	389	69
6 -	13,502		2,169	435	14	16,120	1,065	3,934	1,465	13
5 -			1,522	194	19	1,735	12,733	2,169	158	20
4 -	3,963		118	168	34	4,283	3,963	1,522	58	5
3 -	394		45	826	216	1,501	392	108	133	56
2 -			4	1,450	330	1,744	23,343	65	488	189
1 -	274			63		337	110		624	524
TOTAL -	43,426	180	17,598	5,546	1,731	60,521	43,426	179	17,597	60,518
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.										
40 -		1		UPBOUND					DOWNBOUND	
39 -	2	1				26	1			27
38 -	3	4				39	2			41
37 -	9	2				47	2			49
36 -	3	2				35	1			36
35 -	15	10				67	1			68
34 -	22	5				92	3			95
33 -	45	8				113	2			115
32 -	52	13				93	2			95
31 -	41	16				180	6			186
30 -	59	15				113	2			117
29 -	123	10				74	11			86
28 -	69	17				78	8			88
27 -	88	8				89	9			98
26 -	85	15				87	9			96
25 -	106	12		12		75	9		1	85
24 -	128	12		2	4	79	19		1	99
23 -	143	10				67	11			79
22 -	148	4		1		73	11		3	87
						76	12			88

* EXCLUDES DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
COLUMBIA AND LOWER WILLAMETTE RIVERS BELOW VANCOUVER, WASH., AND PORTLAND, OREG.--(CONTINUED)												
21 - - - - -	160	3		23		186	48	11		3		62
20 - - - - -	139	7	48	29		222	56	10	25	5	84	190
19 - - - - -	132	1	5			138	28	4	4			36
18 AND LESS - - - - -	28,794	9	22,784	6,573	1,883	60,083	28,747	35	22,807	6,627	1,801	60,017
TOTAL - - - - -	30,365	184	22,837	6,640	1,887	61,913	30,365	183	22,836	6,640	1,886	61,910
PORT OF ASTORIA, OREG.												
40 - - - - -												
37 - - - - -	1					1	1					1
36 - - - - -							2					2
35 - - - - -							4					4
34 - - - - -	3					3	5					5
33 - - - - -	4					4	6					6
32 - - - - -	7					7	9					9
31 - - - - -	3					3	6					6
30 - - - - -	9	2				11	6	1				7
29 - - - - -	8					8	4					4
28 - - - - -	7	1				8	5					5
27 - - - - -	5					5	3					3
26 - - - - -	4					4	3					4
25 - - - - -	10					10	10			1		10
24 - - - - -	14					14	14					14
23 - - - - -	19					19	19					19
22 - - - - -	31					31	31					31
21 - - - - -	26			12		38	31	1		13		45
20 - - - - -	22		23			45	22		15			37
19 - - - - -	21		5			26	21		4			25
18 AND LESS - - - - -	63		1,192	97	167	1,519	50		1,200	96	167	1,513
TOTAL - - - - -	297	3	1,220	109	167	1,756	258	2	1,219	110	167	1,752
PORTS OTHER THAN PORTLAND, ASTORIA, ST. HELENS, LONGVIEW, VANCOUVER AND KALAMA												
TOTAL, 18 AND LESS - - - - -	118		3,930	1,109	64	5,221	124		3,929	1,109	64	5,228
PORT OF LONGVIEW, WASH.												
40 - - - - -												
39 - - - - -	6					6	10					10
38 - - - - -	6					6	16	1				17
37 - - - - -	6					6	28					24
36 - - - - -	3					3	8					8
35 - - - - -	8					8	17					17
34 - - - - -	1					1	21					21
33 - - - - -	8					8	43					43
32 - - - - -	8					8	34					34
31 - - - - -	9					9	35					33
30 - - - - -	6					6	29					29
29 - - - - -	19					19	19					19
28 - - - - -	11					11	20					20
27 - - - - -	16					16	16					18
26 - - - - -	16					16	10					27
25 - - - - -	13					13	5					10
24 - - - - -	14					14	6					5
23 - - - - -	27					27	4					6
22 - - - - -	29					29	10					4
21 - - - - -	48					48	2					10
20 - - - - -	50					50	1					2
19 - - - - -	26					26	1					1
18 - - - - -	27		9		20	56		7				27
17 - - - - -	8		3		1	12	10		3		3	4
16 - - - - -	6		6		1	13		12		1	3	16
15 - - - - -			22			22		16			1	17
14 - - - - -			18	45	1	64		16		2		18
13 - - - - -			26	78	12	114		28		1	2	31
12 AND LESS - - - - -	474		2,620	740	118	3,952	474		2,622	859	134	4,084
TOTAL - - - - -	841		2,704	863	153	4,541	841	1	2,704	863	153	4,562
PORT OF KALAMA, WASH.												
40 - - - - -	6					6	6					6
39 - - - - -	3					3	3					3
38 - - - - -	3					3	3	1				4
37 - - - - -	1	1				2	2					2
36 - - - - -	3	1				4	3					3
35 - - - - -							1					1
34 - - - - -							1					1
33 - - - - -												
32 - - - - -												
31 - - - - -												
30 - - - - -												
29 - - - - -		2				2	1					1
28 - - - - -		1				1		1				1
27 - - - - -	1					1		1				2
26 - - - - -							1	1				2
25 - - - - -		1				1		2				1
24 - - - - -	2	1		2		5	1	1				1
23 - - - - -	1					1	1	1				1
22 - - - - -	1					1	1	1				2

* EXCLUDED DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
PORT OF KALAMA, WASH.--(CONTINUED)												
21 - - - - -	3			INBOUND		3		2	OUTBOUND			2
20 - - - - -	1					1						
18 AND LESS - - - - -	24		504	58	46	632	26		504	57	40	627
TOTAL - - - - -	49	8	504	60	46	667	50	9	504	57	40	660
MULTNOMAH CHANNEL, OREG.												
14 - - - - -				UPBOUND					DOWNBOUND			1
13 - - - - -					12	12				1		7
12 - - - - -						2				2		2
11 - - - - -			2			2				5		373
10 - - - - -			4	211	54	215			12	81	92	93
9 - - - - -			258	2	19	279			243	23	34	300
8 - - - - -			104			104			108	8		116
7 - - - - -			294			610	314		294			608
6 - - - - -	316		497	1		498			497			497
5 - - - - -			6	2		8			5			5
4 - - - - -			2	276	88	366			2	8	30	40
3 - - - - -			4	80		84				214	15	229
TOTAL - - - - -	316		1,178	614	173	2,241	314		1,172	614	171	2,271
OREGON SLOUGH (NORTH PORTLAND HARBOR), OREG.												
15 - - - - -	23		112	UPBOUND		115	21	140	DOWNBOUND			163
14 - - - - -			4			4				2		15
13 - - - - -			4		2	6				2	1	3
12 - - - - -			44	64		108			102	57		159
11 - - - - -			200	3		203			190			190
10 - - - - -			88	116	3	207			86	19	2	107
9 - - - - -	14		336	39	20	409	2		254	111		367
8 - - - - -			226	130	9	365			247	160	4	411
7 - - - - -			87	2	3	92			125	3	1	129
6 - - - - -			6	1	2	11	14		65	1		80
5 - - - - -			205	1		206			93	2		95
4 - - - - -				2	2	4			2	1		3
3 - - - - -				132	4	136				25	5	30
2 - - - - -				61		61				150	31	181
1 - - - - -	2					2				11		11
TOTAL - - - - -	39		1,306	559	45	1,949	37		1,304	559	44	1,944
PORT OF VANCOUVER, WASH.												
33 - - - - -	12	2		INBOUND		14	9		OUTBOUND			9
32 - - - - -	6	1				7	5					5
31 - - - - -	1	1				2	1	2				3
30 - - - - -	4					4	5	1				6
29 - - - - -	5					5	2					2
28 - - - - -	9	1				10	5					5
27 - - - - -	10	1				11	9					9
26 - - - - -	11					11	9					9
25 - - - - -	17			1		18	14					14
24 - - - - -	14					14	14					12
23 - - - - -	17	2				19	12					12
22 - - - - -	19					19	12	1				13
21 - - - - -	11					11	11					11
20 - - - - -	12		4			16	10	1	6			17
19 - - - - -	9					9	9					9
18 AND LESS - - - - -	2,112	2	3,196	609	427	6,346	2,143	4	3,193	609	426	6,375
TOTAL - - - - -	2,269	10	3,200	610	427	6,516	2,268	9	3,199	609	426	6,511
COLUMBIA RIVER BETWEEN VANCOUVER, WASH., AND THE DALLES, OREG.												
16 - - - - -		2	2	UPBOUND		4			DOWNBOUND			1
15 - - - - -				8		8				18		20
14 - - - - -				122	184	306			2	94	213	313
13 - - - - -				6	4	10			2	155	6	163
12 - - - - -			210	98	168	476			214	449	320	988
11 - - - - -			431	5	10	446			410	93	17	520
10 - - - - -			188	118	7	313			156	132	1	289
9 - - - - -	96	1	342	130	214	783	60		310	272	4	646
8 - - - - -	4,854		650	209	53	5,766			550	242	10	802
7 - - - - -	69		1,720	111	4	1,904	35		1,720	1,275	1	2,981
6 AND LESS - - - - -	710		941	2,174	81	3,906	5,634		1,113	296	153	7,196
TOTAL - - - - -	5,729	3	4,484	2,981	725	13,922	5,729	1	4,483	2,981	725	13,919
COLUMBIA RIVER ABOVE THE DALLES DAM, WASH., AND OREG. TO McNARY LOCK AND DAM, OREG., AND WASH.												
15 - - - - -				UPBOUND					DOWNBOUND			17
14 - - - - -				14	194	208				45	202	247
13 - - - - -				3	3	6				182	6	188
12 - - - - -			197	91	195	483		1	199	510	317	1,027
11 - - - - -			230	5	10	245			237	53	17	307
10 - - - - -			91	13	1	105			91	139	1	231
9 - - - - -		1	66	151	183	401			61	31	4	96

* EXCLUDES DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					TOTAL	DIRECTION					TOTAL
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	
COLUMBIA RIVER ABOVE THE DALLES DAM, WASH. AND OREG. TO McNARY LOCK AND DAM, OREG. AND WASH.--(CONTINUED)												
8			151	UPBOUND	31	321			151	DOWNBOUND	10	312
7	26		27		2	55	26		13		1	46
6					2	8	1		2			9
5			8		2	43			1			9
3	5			182		187	5		9	7	56	77
2				510	75	585				18	84	102
TOTAL	31	1	770	1,167	698	2,667	32	1	770	1,167	698	2,668
PORT OF PORTLAND, OREG.												
39		2		INBOUND		2	15	2		OUTBOUND		17
38	1	6				7	13	1				14
37	2	2				4	18					18
36	24	3				27	24					24
35	5	9				14	61	3				64
34	17	4				21	46	2				48
33	28	0				37	48	2				50
32	46	12				58	69	7				76
31	27	15				42	71					71
30	37	13				50	43	9				52
29	67	0				75	48	7				55
28	40	14				54	53	10				63
27	50	5				55	46	10				56
26	50	13				63	52	8				60
25	59	11		11		81	55	19		1		75
24	74	11			4	89	45	10			1	56
23	63	6				69	51	18		3		60
22	43	5		1		49	48	10				58
21	52	2		22		76	35	9		2		46
20	38	6	14	27		85	39	10	11	3		63
19	57	1				58	18	4				22
18 AND LESS	872	8	15,603	4,792	1,519	22,794	755	30	15,606	4,841	1,522	22,754
TOTAL	1,652	165	15,617	4,853	1,523	23,810	1,453	167	15,617	4,850	1,523	23,810
WILLAMETTE RIVER ABOVE PORTLAND AND YAMHILL RIVER, OREG.												
12				UPBOUND		6			6	DOWNBOUND	5	11
11			2			18			8			18
10			6			12			10			1,183
9	2		84	357	12	455	2		66	1,183	127	1,430
8			1,402	271	8	1,741			1,477	994	6	2,481
7			451	187	3	641			465	348		813
6	160		351	190	3	713	159		351	511		1,021
5			719	24	2	745			714	20		734
4			1,017	103		1,120			1,017	79		1,094
3				598	124	726			3	360	9	372
2				2,254	1	2,255				339	8	347
1				72		72						
TOTAL	162		4,116	4,081	153	8,512	161		4,117	4,081	157	8,516
COOS BAY, OREG.												
36				INBOUND		7				OUTBOUND		7
35	1					37						37
34						20						20
33	6					42						42
32	8					41						41
31	8	1				45						45
30	11	2				13	19					19
29	19	1				20	8	1				9
28	44					44	10					10
27	16	2				18	12	3				15
26	25	5				30	6	4				10
25	26	1				27	7	1				8
24	19					19	4	2				6
23	22					22	6					6
22	18					18	4	1				5
21	21					21	4					4
20	23					23	3					3
19	0					9						
18	3					3						
17	1					14			14	2	1	17
16			8	3	2	16			8			8
15			8	8		16			15			21
14			31	3		34			6			2
13				3	1	4			2			2
12 AND LESS	3		2,437	155	24	2,619	1		2,465	157	17	2,640
TOTAL	279	12	2,484	172	27	2,974	276	12	2,502	167	19	2,976
COOS AND MILLICOMA RIVERS, OREG.												
8			150	UPBOUND		150			151	DOWNBOUND		151
7			81			81			81			81
6			226			226			224			224
5			298			298			293			293
4			185			185			181			181
3			3			3			3			3
TOTAL			943			943			933			933

* EXCLUDED DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					TOTAL	DIRECTION					TOTAL
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	
UMPUGA RIVER, OREG.					UPBOUND						DOWNBOUND	
24 -					1	1						1
16 -												
15 -				2		2						
10 -									2			
12 -				1	82	83			3	56		56
11 -					9	9				12		15
10 -				2		2				9		9
9 -				3	3	6			2	6		8
8 -				2	13	15				16		16
7 -										9		9
6 AND LESS -				101	170	1	302		184	117	1	302
TOTAL -				191	227	2	620		191	227	2	620
VAQUINA BAY AND HARBOR, OREG.					UPBOUND						DOWNBOUND	
33 -								7				7
32 -								1				1
31 -								2				2
30 -												
29 -												
28 -								1				1
27 -												
26 -								2				2
25 -												
22 -												
21 -												
20 -												
19 -												
18 -					1	1					1	1
17 -						2						
16 -						1						1
15 -						1				4		5
14 -						1				1		2
13 -				2	1	3				3		3
12 AND LESS -				12	12	1	25		10	6	1	19
TOTAL -				15	17	2	66	14	18	14	2	46
ALSEA BAY AND RIVER, OREG.					NO VESSEL TRIPS REPORTED							
CHETCO RIVER, OREG.					UPBOUND						DOWNBOUND	
TOTAL, 12 AND LESS -				6	6	12			7	6		13
CHINOOK CHANNEL, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 10 AND LESS -	4,660			3	9	4,672	4,660		3	10		4,673
CLATSkanie RIVER, OREG.					UPBOUND						DOWNBOUND	
TOTAL, 6 AND LESS -				5		5			5			5
COLUMBIA RIVER AT BAKERS BAY, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 10 AND LESS -	8,595			12	9	8,616	8,595		12	9		8,616
COLUMBIA SLOUGH, OREG.					NO VESSEL TRIPS REPORTED							
COQUILLE RIVER, OREG.					NO VESSEL TRIPS REPORTED							
COWLITZ RIVER, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 6 AND LESS -	200			2		200	200		4			200
DEEP RIVER, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 7 AND LESS -				79	6	83			81	3		84
DEPOE BAY, OREG.					NO VESSEL TRIPS REPORTED							
ELKOMIN SLOUGH, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 11 AND LESS -				1		1			1			1
GRAYS RIVER, WASH.					NO VESSEL TRIPS REPORTED							
LAKE RIVER, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 8 AND LESS -	6					6	6					6
LEWIS RIVER, WASH.					UPBOUND						DOWNBOUND	
TOTAL, 7 AND LESS -	10			103	90	213	10		145	96		221
PORT OF ST. HELENS, OREG.					INBOUND						OUTBOUND	
TOTAL, 10 AND LESS -				100	60	2	172		102	62	1	165
* EXCLUDED DOMESTIC FISHING CRAFT.												

Waterborne Commerce of the United States, 1986

PORTLAND, OREG., DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY						DIRECTION						
DRAFT (FEET)	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
PORT ORFORD, OREG.			NO VESSEL TRIPS REPORTED									
ROGUE RIVER, OREG. TOTAL, 3 AND LESS - - - - -	689			UPBOUND		689	689			DOWNBOUND		689
SIUSLAH RIVER, OREG. TOTAL, 5 AND LESS - - - - -			155	UPBOUND		155		155		DOWNBOUND		155
SKAMOKAWA (STEAMBOAT) SLOUGH, WASH. TOTAL, 7 AND LESS - - - - -			2	UPBOUND		2		1		DOWNBOUND		1
SKAMOKAWA CREEK, WASH. TOTAL, 8 AND LESS - - - - -			3	UPBOUND		3		3		DOWNBOUND		3
SKIPANON CHANNEL, OREG. TOTAL, 8 AND LESS - - - - -			241	UPBOUND 190		431		240		DOWNBOUND 191		431
SMITH RIVER, OREG. TOTAL, 9 AND LESS - - - - -			22	UPBOUND 3		25		22		DOWNBOUND 3		25
TILLAMOOK BAY AND BAR, OREG. TOTAL, 7 AND LESS - - - - -			3	INBOUND		3		3		OUTBOUND		3
WESTPORT SLOUGH, OREG. TOTAL, 9 AND LESS - - - - -	4,335		3	UPBOUND		4,338	4,335	3		DOWNBOUND		4,338
YAGUINA RIVER, OREG. TOTAL, 4 AND LESS - - - - -			1	UPBOUND		1		1		DOWNBOUND		1
YOUNGS BAY AND YOUNGS RIVER, OREG. TOTAL, 10 AND LESS - - - - -			146	UPBOUND 1		147		150		DOWNBOUND 1		151
* EXCLUDES DOMESTIC FISHING CRAFT.												

SEATTLE, WA, DISTRICT

115

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
GRAY'S HARBOR AND CHEHALIS RIVER, WASH.				INBOUND						OUTBOUND		
35 -							102					102
34 -							5					5
33 -							7					7
32 -							11	1				12
31 -	4					4	4					8
30 -	1					1	4					5
29 -	2					2	2					2
28 -	3					3	4					4
27 -	5					5	2					2
26 -	7					7	4					4
25 -	1					1	1					1
24 -	8					8	2					2
23 -	14					14	1	1				2
22 -	27	1				28	1					1
21 -	23					23	2					2
20 -	36		2			38						
19 -	11	1				12				112		112
18 -	12		2		2	16			2		1	3
17 -	2		2			4			2			2
16 -	3		7	1	1	12			8	117	2	127
15 -			3			3			7	1		8
14 -			6	1		7			5	4		9
13 -			6			6			9	8	1	18
12 AND LESS -	10,400		662	798	5	11,865	10,400		664	554	7	11,629
TOTAL -	10,557	2	692	800	5	12,059	10,556	2	697	800	11	12,066
PORT ANGELES HARBOR, WASH.				INBOUND						OUTBOUND		
30 -	13	8				21	78	7				85
29 -	6	1				7	10	2				12
28 -	3					3	13	1				14
27 -	3					3	3					3
26 -	3					3	6					6
25 -	5					5	3					3
24 -	12	1				13	4	1		1		6
23 -	11	1				12	8			1		9
22 -	9	1				10	5					5
21 -	16	1				17	1	1				2
20 -	15		12			27	4		6	9		23
19 -	15	1	1			20	6		3	1		10
18 AND LESS -	9,605	9	3,500	370	304	13,791	9,571	11	3,506	356	301	13,745
TOTAL -	9,722	23	3,513	370	304	13,932	9,716	23	3,515	368	301	13,923
PORT TOWNSEND HARBOR, WASH.				INBOUND						OUTBOUND		
TOTAL, 22 AND LESS -	1,265	2	628	429	82	2,406	1,263	2	625	427	90	2,407
PORT GAMBLE HARBOR, WASH.				INBOUND						OUTBOUND		
16 -			2			2				5	6	11
15 -			10			10			4			6
14 -			24			24			32	4		36
13 -			42			42			62	2		64
12 AND LESS -			469	219	8	696			450	211	2	663
TOTAL -			547	219	8	774			550	222	8	780
HAMMERSLEY INLET, WASH.				INBOUND						OUTBOUND		
13 -			2			2						
12 -			1			1			1			1
10 -				5		5				109		109
9 -			48			48			34			34
8 -	2,889		239	2		3,130			255	30		285
7 -			2			2			2	5		7
6 AND LESS -			2	142		144	2,889		2	3		2,894
TOTAL -	2,889		294	149		3,332	2,889		294	147		3,330
OLYMPIA HARBOR, WASH.				INBOUND						OUTBOUND		
30 -							15					15
29 -							1					1
28 -							1					1
27 -	1					1	2					2
26 -	1					1	1					1
24 -							1					1
23 -	3					3	3					3
22 -	1					1	2					2
21 -	5					5	1					1
20 -	6					6						
19 -	2					2						
18 AND LESS -	1,681		301	7	8	1,997	1,674		298	7	7	1,986
TOTAL -	1,700		301	7	8	2,016	1,701		298	7	7	2,013
TACOMA HARBOR, WASH.				INBOUND						OUTBOUND		
35 -	26	12		1		39	97					97
34 -	13	4				17	33	1				34
33 -	596	2				598	23	5				28
* EXCLUDES DOMESTIC FISHING CRAFT.												

* EXCLUDED DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

SEATTLE, WASH., DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION				
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS	
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER
DRAFT (FEET)										
TACOMA HARBOR, WASH.--(CONTINUED)				INBOUND					OUTBOUND	
32 -	12	12				24	53	11		64
31 -	17	1				18	41	5		46
30 -	30	6				44	16	12		48
29 -	34	4				38	39	6		45
28 -	75	13				41	140	6		141
27 -	145	15				160	48	4		52
26 -	91	24				115	77	4		81
25 -	59	11				70	50	11		61
24 -	76	8			1	85	37	8		45
23 -	76	7				83	59	4		63
22 -	53	2				55	30	3		42
21 -	34	5				39	27	2		29
20 -	36	3	6	1		46	42	11	8	64
19 -	33	2		1		36	24	1	4	30
18 -	23	1		2	8	34	589	1		594
17 -	9	7	5,592			5,608	11	15	5,609	5,635
16 -	16		80	3	2	81	7		39	53
15 -	10	1	400	9	52	472	8	3	410	463
14 -	1	2	188	14	45	250	1	2	198	290
13 -	4	1	717	18	20	760			241	796
12 AND LESS-	4,785	15	5,051	1,216	944	12,011	4,785	36	4,997	11,948
TOTAL-	6,265	154	11,094	1,265	1,072	20,744	6,266	153	12,002	20,754
SEATTLE HARBOR, WASH.				INBOUND					OUTBOUND	
35 -	40	11				51	45	7		52
34 -	19					19	16			16
33 -	27	2				29	17			17
32 -	40	7				47	46			46
31 -	45	1				46	36	2		38
30 -	75	4				79	70			70
29 -	70	1				71	100	2		102
28 -	79					84	50	6		56
27 -	84	5				90	61	6		67
26 -	116	8				124	151	11		162
25 -	111	6				119	90	11		100
24 -	41	8				43	64	4		68
23 -	71	2		1	3	73	84	2		89
22 -	32	5	2			39	46	2	1	49
21 -	25	1		4		30	32		1	33
20 -	64	3	39	11	2	119	63	6	49	123
19 -	27	9		11		47	30	1	6	37
18 AND LESS-	35,543	95	14,156	3,222	1,973	54,949	35,550	106	14,148	55,023
TOTAL-	36,549	167	14,246	3,249	1,978	56,149	36,550	166	14,205	56,148
LAKE WASHINGTON SHIP CANAL, WASH.				INBOUND					OUTBOUND	
23 -										1
22 AND LESS-	586	61	2,196	942	125	3,910	591	61	2,196	3,914
TOTAL-	586	61	2,196	942	125	3,910	591	61	2,196	3,915
EVERETT HARBOR AND SKIDNOMISH RIVER, WASH.				INBOUND					OUTBOUND	
36 -	7					7	21			21
33 -	2					2	24			24
32 -	1					1	11			11
31 -	1					1	5			5
30 -	1					1	24			24
29 -	1					1	4			4
28 -	4					4	4			4
27 -	4					4	6			6
26 -	3					3	11			11
25 -	7					7	1			1
24 -	5					5	1			1
23 -	5					5	6			6
22 -	10					10	5			5
21 -	6					6	1			1
20 -	23					23	4			4
19 -	17					17	1			1
18 AND LESS-	4,414		2,678	302	156	7,550	4,382		2,681	7,521
TOTAL-	4,511		2,678	302	156	7,647	4,511		2,681	7,650
SKIDNOMISH CHANNEL, WASH.				NORTHBOUND					SOUTHBOUND	
12 -			25			25		24		24
11 -			65			65		59		59
10 -			54			54		6	44	50
9 -			78			78		39		39
8 -	8,196		43			8,279		32		32
7 -			42			42		94		94
6 AND LESS-			219	47		266	8,196	313	3	8,512
TOTAL-	8,196		566	47		8,809	8,196	567	47	8,810
ANACORTES HARBOR, WASH.				INBOUND					OUTBOUND	
33 -	3	168				171	5	43		48
32 -		2				2	2	17		19
31 -		3				3	1	0		10

* EXCLUDES DOMESTIC FISHING CRAFT.

117

HARBOR OR WATERWAY	DIRECTION					TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS			TOTAL
	DRAFT (FEET)	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		
ANACORTES HARBOR, WASH.--(CONTINUED)					INBOUND						OUTBOUND		
30 - - - - -			5			5		16				17	
29 - - - - -		2	10			12		14				14	
28 - - - - -		1	2			3		9				9	
27 - - - - -			5			5		7				7	
26 - - - - -		3	2			5	2	18				20	
25 - - - - -			9			9		15				15	
24 - - - - -			4			5		17			1	18	
23 - - - - -			1			1		12				12	
22 - - - - -			2			2	1	6				7	
21 - - - - -		1	3			4		3				3	
20 - - - - -		2	2	2		6	2	6	2		1	11	
19 - - - - -		1	1			2	2	1				4	
18 AND LESS - - - - -		11,083	32	1,996	159	262	11,078	37	1,996	158	269	13,534	
TOTAL - - - - -		11,096	251	1,998	159	263	11,094	250	1,998	159	271	13,772	
BELLINGHAM BAY AND HARBOR, WASH.					INBOUND						OUTBOUND		
30 - - - - -		7	7			14	2	17				19	
29 - - - - -			4			4	5	4				9	
28 - - - - -		3	1			4	8	3				11	
27 - - - - -		3	1			4	2	1				3	
26 - - - - -		4	1			5	5	2				7	
25 - - - - -		2	1			3	2					2	
24 - - - - -		3	3			6	3	2				5	
23 - - - - -		2	1			3	6					6	
22 - - - - -		5	1			6	2	1				3	
21 - - - - -		2	1		1	4	1	2				3	
20 - - - - -		3	1		1	5	1	2				3	
19 - - - - -		3	2			5	4	1				7	
18 AND LESS - - - - -		31,512	14	1,551	280	193	31,550	4	1,551	280	193	33,532	
TOTAL - - - - -		31,549	38	1,551	282	193	31,545	39	1,551	282	193	33,610	
BLAINE HARBOR, WASH.					INBOUND						OUTBOUND		
TOTAL, 9 AND LESS - - - - -		13,862					13,862					13,862	
COLUMBIA RIVER BETWEEN WENATCHEE AND KETTLE FALLS, WASH.					UPBOUND						DOWNBOUND		
TOTAL, 12 AND LESS - - - - -		12,616		3			12,619			3		12,618	
FLATHEAD LAKE, MONT.					NO VESSEL TRIPS REPORTED								
HOQUIAM RIVER, WASH.					UPBOUND						DOWNBOUND		
TOTAL, 18 AND LESS - - - - -		2,502		350	12	4	2,868	2,502		347	12	2,865	
KOOTENAI RIVER, IDAHO AND MONT.					NO VESSEL TRIPS REPORTED								
MEAH BAY, WASH.					INBOUND						OUTBOUND		
TOTAL, 14 AND LESS - - - - -		11,075		2		1	11,078			2		11,078	
QUILLAYUTE RIVER, WASH.					UPBOUND						DOWNBOUND		
TOTAL, 8 AND LESS - - - - -		2,363					2,363	2,363				2,363	
SKAGIT RIVER, WASH.					UPBOUND						DOWNBOUND		
TOTAL, 17 AND LESS - - - - -				81	41	2	124			81	41	124	
STILLAGUNISH RIVER, WASH.					NO VESSEL TRIPS REPORTED								
WATERWAY CONNECTING PORT TOWNSEND BAY AND OAK BAY, WASH.					NORTHBOUND						SOUTHBOUND		
TOTAL, 15 AND LESS - - - - -	</												

• EXCLUDES DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

ALASKA DISTRICT

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DRAFT (FEET)				
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	INBOUND		OUTBOUND	
	PASSENGER AND DRY CARGO	TANKER	TUGBOAT OR TUGBOAT	DRY CARGO	TANKER		DRY CARGO	TANKER		
KETCHIKAN HARBOR, ALASKA										
32						2	5			5
31							3			3
30						2	16			18
29	5	1				6	13	1		14
28	37					37	41	3		44
27	29	1				30	19	1		40
26	20					20	14			18
25	24	2				26	30	1		35
24	31	1				32	30	2		32
23	36					36	33			33
22	21			1		22	23	1		24
21	13		4	1		18	9	3	2	11
20	104		3	5		112	105	4		115
19	40	1		1		46	36	3	1	40
18	35		2	2		39	16	3	1	20
17	4		1	1		6	4	4	1	9
16	259		2	1		262	255	6		261
15	963		58	18	3	942	857	39	16	912
14	14		179	4	2	199	17	188	3	208
13	8		121	41	2	172	3	110	26	181
12 AND LESS	13,138		483	347	90	14,058	13,132	495	171	14,094
TOTAL	14,687	8	857	422	97	16,071	14,686	4	456	16,074
KRANGELL HARBOR, ALASKA										
32						1	4			4
31						1	3			3
30	1					1	1			1
29	5					5	5			5
28	4					4	2			2
25	9					9	7			7
24	1					1				1
23							1			1
22							2			2
21	1		1	1		3	1	1	1	3
20	94		2			96	92	1		93
19	1					1				1
18	4					4		1		1
17	1		3			4	3			3
16	2			5		7	2			2
15	589		2	20		610	591	1	18	610
14	1		93	3		96		93	4	97
13	1		48	11	1	61	2	48	10	61
12 AND LESS	43		378	299	23	743	42	378	300	744
TOTAL	756		527	339	24	1,646	756	526	339	1,646
KRANGELL NARROWS, ALASKA										
20	93		1			94	93	1		94
17			10			10	1	7		8
16	113		11	29		153	113	10	3	126
15	882		61	24		967	882	36	24	942
14			115	9		124		172	4	176
13	10		37	16	11	74	9	56	16	79
12 AND LESS	100		337	335	85	857	100	290	372	862
TOTAL	1,198		572	413	105	2,288	1,198	572	413	2,287
LAKE HARBOR, ALASKA										
21	2					2	3			3
16	138					138	137			137
15	71					71	70			70
13	9					9	8			8
12			1	13	3	17		1	13	15
11			3		2	5		3	1	4
10	6		32		3	41	6	32	4	42
9			16	1	2	19	2	16	2	23
8	1		4	3		8		4	1	8
7	1		29			30		29	1	30
6	1					1	3			3
5					1	1			1	2
4				3		3			3	3
3				2		2			3	3
2				10		10			6	6
TOTAL	229		85	32	11	357	229	85	32	357
SITKA HARBOR, ALASKA										
29	28					28	32			32
28	6					6	2			2
27	12					12	17			17
26	18					18	17			17
25	33					33	28			28
24	21					21	22			22
23	3					3	2			2
20	50		6	2		58	53	6		59
19	20		2	1		23	18	2		20
18	4			12		16	3		12	15
17	1		12	8		21	3	9	1	13

* EXCLUDES DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
SITKA HARBOR, ALASKA--(CONTINUED)												
				INBOUND						OUTBOUND		
16 - - - - -	253		14	26		293	257		10	7		274
15 - - - - -	217		28	25		273	220		22	31		273
14 - - - - -	10		88	7	9	114	11		78	4		93
13 - - - - -	1		20	10	11	42	3		15	11	4	33
12 AND LESS - - - - -	63		214	185	40	510	78		271	206	61	546
TOTAL - - - - -	740		388	279	60	1,471	766		343	272	65	1,466
SERGIUS AND WHITESTONE NARROWS, ALASKA												
				NORTHBOUND						SOUTHBOUND		
20 - - - - -	11		1			12	10		1			11
17 - - - - -			3			3			4			4
16 - - - - -	112		6	5		123	108		10	12		130
15 - - - - -	70		29	16		106	67		26	12		105
14 - - - - -			53	2		55			68	4	9	81
13 - - - - -			13	3	4	20			14	1	11	26
12 - - - - -			45	4		49			53	3	15	71
11 - - - - -			1		1	2			1	1	5	7
10 - - - - -			4	4	3	11			6	125	4	137
9 - - - - -	2		84	1	8	95	2		83	1	9	95
8 - - - - -	13		26		16	56	38		25	1	3	67
7 - - - - -	1			4	20	25				6	3	11
6 - - - - -	1			4	5	10					4	13
5 - - - - -				13		13				8		8
4 - - - - -	26			5	3	34				7		7
3 - - - - -				1		1	7			2		9
2 - - - - -				133	3	136	10			1		11
TOTAL - - - - -	237		256	197	63	753	242		291	195	65	793
SKAGWAY HARBOR, ALASKA												
				INBOUND						OUTBOUND		
34 - - - - -	1					1	1					1
29 - - - - -	7					7	8					8
28 - - - - -	22					22	22					22
27 - - - - -	14					14	14					14
26 - - - - -	7					7	8					8
25 - - - - -	22					22	20					20
23 - - - - -	19					19	19					19
22 - - - - -	17					17	19					19
21 - - - - -	4					4	2					2
20 - - - - -	68					68	68					68
19 - - - - -	25					25	27					27
18 - - - - -	15					15	14					14
17 - - - - -					4	4						4
16 - - - - -	95		2			97	95		2			97
15 - - - - -	318		15			333	321		17			338
14 - - - - -	12		5	1	2	20	12		5	1	1	19
13 - - - - -			2			2			2			2
12 AND LESS - - - - -	31		27	13		71	32		19	12	5	68
TOTAL - - - - -	677		51	14	6	748	682		45	13	6	746
VALDEZ HARBOR, ALASKA												
				INBOUND						OUTBOUND		
77 - - - - -									1			1
74 - - - - -		2				2			2			2
73 - - - - -		1				1			1			1
72 - - - - -		11				11			11			11
71 - - - - -		1				1			27			27
70 - - - - -		1				1			11			11
69 - - - - -									1			1
58 - - - - -		10				10			16			16
57 - - - - -		3				3			7			7
56 - - - - -		2				2			6			6
65 - - - - -		1				1			8			8
64 - - - - -									1			1
62 - - - - -									1			1
61 - - - - -		1				1			3			3
60 - - - - -		12				12			60			60
59 - - - - -		10				11			52			53
58 - - - - -		2				2			27			27
57 - - - - -		10				10			40			40
56 - - - - -		2				2			25			25
55 - - - - -		11				11			30			30
54 - - - - -		4				4			30			30
53 - - - - -		1				1			32			32
52 - - - - -		5				5			38			38
51 - - - - -		5				5			53			53
50 - - - - -		1				1			2			2
49 - - - - -		1				1			1			1
48 - - - - -		5				5			18			18
47 - - - - -		2				2			7			7
46 - - - - -		1				1			1			1
45 - - - - -		6				6			10			10
44 - - - - -		9				9			90			90
43 - - - - -		1				1			43			43
42 - - - - -		5				5			23			23
41 - - - - -		32				32			44			44
40 - - - - -		23				23			53			53
39 - - - - -		11				11			11			11
38 - - - - -		9				9			6			6
37 - - - - -		21				21			22			22

* EXCLUDES DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

Waterborne Commerce of the United States, 1986

ALASKA DISTRICT
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					DIRECTION						
	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
VALDEZ HARBOR, ALASKA--(CONTINUED)				INBOUND					OUTBOUND			
36 -		23				23		19				19
35 -		25				25		11				11
34 -		20				20		15				15
33 -		32				32		9				9
32 -		35				35		1				1
31 -		50				50		1				1
30 -		48				48		7				7
29 -	4	29				33	2	10				12
28 -	7	42				49	9	3				12
27 -	15	49				64	14	1				15
26 -		58				58	1					1
25 -		40				40						
24 -		34				34		1				1
23 -		9				10						
22 -	1	10				10	1					1
21 -		9				9						
20 -		32				32		3				3
19 -		3				3						
18 -		15		8		23		2		8		10
17 -		22	2			24		4				4
16 -		4	4	2		10		3		1		4
15 -	59	10	13	3		85	61	10		3		74
14 -		15	9	1	1	26		9	1	1		11
13 -	309	1	6	11	2	329	310	6		10	1	327
12 AND LESS -	1	61	13	19	2	96	1	13		24	4	42
TOTAL -	396	898	47	45	5	1,391	399	898	47	48	5	1,397
SEWARD HARBOR, ALASKA				INBOUND					OUTBOUND			
31 -	1					1	10					10
30 -	2					2	1					1
28 -	2					2	1					1
27 -	3					3	1					1
26 -	1					1	1					1
25 -	6					6	1					1
24 -	2					2	1					1
23 -	3					3	3					3
22 -	3					3	1					1
21 -	3					3	5					5
20 -	5					5	6					6
19 -	4					4	5					5
18 -	6		14	3		23	3	14	3			20
17 -	3					3	2	2				4
16 -	1		3			4	2	3				5
15 -	107		3	1	1	112	108	3	1			112
14 -	4					4	5	2				7
13 -	4		4	1	1	10	6	2			1	9
12 -	7			1		8	4					4
11 -	2		12			14	2	10				12
10 -	1		1			2	2	1				3
9 -	1					1	1					1
8 -	1					1	1					1
7 -	1				1	2	1					1
6 -	2					2	1	2				3
5 -					1	1						1
4 -	1			3		4				4	2	6
3 -	1					1	2					2
2 -				1		1				2		2
TOTAL -	176		37	10	4	227	175	39		10	3	227
ANCHORAGE, ALASKA				INBOUND					OUTBOUND			
35 -		1				1	1	1				2
34 -	1					1						1
33 -	3					3	1					1
32 -	11	5				16	1	1				2
31 -	20	11				31	5	2				7
30 -	24	11				35	8	5				13
29 -	13	6				19	13	5				18
28 -	107	2				109	20	10				30
27 -	8	1				9	116	10				126
26 -	2					2	10	1				11
25 -	1					1	3	1				4
24 -	4					4	3					3
23 -	1					1	1	1				2
22 -	2					2	1					2
21 -	1					1	3	1			1	4
20 -	4		12			16	2		12			14
19 -	9			1		9	10			1		11
18 -	1		6	1		8	3	4		1		8
17 -		1				1		2				2
16 -		1	11	2		14	2	8				11
15 -	1		6	8	1	16	3	11	10		1	24
14 -	3	1	9	3	1	17	4	14	3	1		22
13 -	1		3	13		17		4	1			5
12 AND LESS -	4		13	13	6	36	10	2	6	24	5	49
TOTAL -	220	40	62	41	8	371	220	40	63	45	8	371
BETHEL HARBOR, ALASKA				INBOUND					OUTBOUND			
TOTAL, 15 AND LESS -	43	15	53	59	57	227	43	15	52	58	57	225

* EXCLUDES DOMESTIC FISHING CRAFT.

* EXCLUDES DOMESTIC FISHING CRAFT.

TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION						DIRECTION					
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		TOTAL	SELF PROPELLED VESSELS			NON SELF PROPELLED VESSELS		TOTAL
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
DRAFT (FEET)												
CORDOVA HARBOR, ALASKA TOTAL, 18 AND LESS - - - - -	223		43	INBOUND 22	11	299	223		43	OUTBOUND 22	10	298
CRAIG HARBOR, ALASKA TOTAL, 13 AND LESS - - - - -	17		9	INBOUND 13		19	16		11	OUTBOUND 13		40
DILLINGHAM HARBOR, ALASKA TOTAL, 8 AND LESS - - - - -			34	INBOUND 27	10	71			34	OUTBOUND 28	9	71
DOUGLAS HARBOR, ALASKA TOTAL, 13 AND LESS - - - - -			12	INBOUND 2		14			16	OUTBOUND 3		19
DRY PASS, ALASKA TOTAL, 10 AND LESS - - - - -			5	INBOUND		5			5	OUTBOUND		5
EGEGIK RIVER, ALASKA TOTAL, 14 AND LESS - - - - -	1		6	INBOUND		7	1		4	OUTBOUND	2	7
ELFIN COVE HARBOR, ALASKA TOTAL, 9 AND LESS - - - - -			3	INBOUND 3		6			3	OUTBOUND 2		5
GASTINEAU CHANNEL, ALASKA TOTAL, 30 AND LESS - - - - -	1,327		253	INBOUND 124	25	1,729	1,323		260	OUTBOUND 125	24	1,732
HOMER, ALASKA TOTAL, 24 AND LESS - - - - -	204	9	18	INBOUND 10	1	242	203	9	19	OUTBOUND 12	1	244
HOONAH HARBOR, ALASKA TOTAL, 20 AND LESS - - - - -	374		57	INBOUND 23	11	465	377		57	OUTBOUND 23	11	468
HUMBOLDT HARBOR, ALASKA TOTAL, 18 AND LESS - - - - -	98		8	INBOUND 9		115	99		10	OUTBOUND 10		119
JUNEAU HARBOR, ALASKA TOTAL, 29 AND LESS - - - - -	1,327		267	INBOUND 127	25	1,746	1,323		273	OUTBOUND 128	24	1,748
KING COVE LAGOON, ALASKA TOTAL, 15 AND LESS - - - - -	86		13	INBOUND 16	2	117	87		11	OUTBOUND 16	2	116
KODIAK HARBOR, ALASKA TOTAL, 32 AND LESS - - - - -	252	23	200	INBOUND 52	26	553	253	23	197	OUTBOUND 93	26	552
KETLAKATLA HARBOR, ALASKA TOTAL, 21 AND LESS - - - - -	587		119	INBOUND 126	11	843	587		119	OUTBOUND 127	10	843
NAKNEK RIVER, ALASKA TOTAL, 14 AND LESS - - - - -	5		42	INBOUND 25	15	87	5		42	OUTBOUND 23	16	86
NINILCHIK HARBOR, ALASKA	NO VESSEL TRIPS REPORTED											
OME, ALASKA TOTAL, 18 AND LESS - - - - -	4		157	INBOUND 45	83	209	3		156	OUTBOUND 46	84	209
OLD HARBOR, ALASKA TOTAL, 15 AND LESS - - - - -	21		4	INBOUND 3		26	21		2	OUTBOUND 3		26
PELICAN HARBOR, ALASKA TOTAL, 12 AND LESS - - - - -	56		6	INBOUND 17		79	56		6	OUTBOUND 15		77
PETERSBURG HARBOR, ALASKA TOTAL, 20 AND LESS - - - - -	893		222	INBOUND 137	24	1,276	893		222	OUTBOUND 138	25	1,278
PORT ALEXANDER, ALASKA TOTAL, 9 AND LESS - - - - -			2	INBOUND		2			2	OUTBOUND		2
SELDOVIA HARBOR, ALASKA TOTAL, 17 AND LESS - - - - -	94		17	INBOUND 1	9	121	94		15	OUTBOUND 1	8	118
STIKINE RIVER, ALASKA TOTAL, 5 AND LESS - - - - -			36	INBOUND 33		69			36	OUTBOUND 33		69
• EXCLUDES DOMESTIC FISHING CRAFT.												

* EXCLUDES DOMESTIC FISHING CRAFT.

ALASKA DISTRICT
TRIPS AND DRAFTS OF VESSELS

HARBOR OR WATERWAY	DIRECTION					TOTAL	DIRECTION					TOTAL
	SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS			SELF PROPELLED VESSELS			NON-SELF PROPELLED VESSELS		
	PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER		PASSENGER AND DRY CARGO	TANKER	TOWBOAT OR TUGBOAT	DRY CARGO	TANKER	
UNALASKA BAY AND ISLAND, ALASKA TOTAL, 29 AND LESS - - - - -	466	7	1,304	INBOUND 22	49	1,848	465	6	1,314	OUTBOUND 21	46	1,852
CHATHAM STRAIT, ALASKA TOTAL, 32 AND LESS - - - - -	2,229		363	UPBOUND 256	116	2,964	1,124		383	DOWNBOUND 294	96	1,897
CLARENCE STRAIT, ALASKA TOTAL, 30 AND LESS - - - - -	1,212		535	UPBOUND 253	51	2,051	1,211		535	DOWNBOUND 253	52	2,051
FREDERICK SOUND, ALASKA TOTAL, 32 AND LESS - - - - -	1,078		528	UPBOUND 324	101	2,031	1,078		528	DOWNBOUND 324	101	2,031
ICY STRAIT, ALASKA TOTAL, 34 AND LESS - - - - -	2,766		135	UPBOUND 76	44	3,021	2,766		136	DOWNBOUND 76	43	3,021
LYNN CANAL, ALASKA TOTAL, 34 AND LESS - - - - -	2,373		176	UPBOUND 98	19	2,666	2,373		179	DOWNBOUND 99	10	2,670
NIKISHKA, ALASKA TOTAL, 44 AND LESS - - - - -	206	136	108	UPBOUND 45	67	562	210	126	112	DOWNBOUND 50	52	552
PERIL STRAIT, ALASKA TOTAL, 20 AND LESS - - - - -	43		342	UPBOUND 191	64	640	41		365	DOWNBOUND 193	64	668
PRINCE WALES IS. WEST SIDE, ALASKA TOTAL, 16 AND LESS - - - - -	56		171	INBOUND 66	34	327	56		171	OUTBOUND 66	34	327
REVILLAGIGADO CHANNEL, ALASKA TOTAL, 35 AND LESS - - - - -	2,532	8	332	UPBOUND 158	64	3,094	2,531	8	332	DOWNBOUND 158	64	3,093
STEPHENS PASSAGE, ALASKA TOTAL, 30 AND LESS - - - - -	2,396		330	UPBOUND 190	39	2,955	327		265	DOWNBOUND 94	27	733
SUMNER STRAIT, ALASKA TOTAL, 36 AND LESS - - - - -	1,709		744	UPBOUND 522	116	3,091	1,709		744	DOWNBOUND 524	116	3,093
TONGASS NARROWS, ALASKA TOTAL, 35 AND LESS - - - - -	2,564	8	827	UPBOUND 474	102	3,975	2,561	8	827	DOWNBOUND 477	101	3,974

= EXCLUDES DOMESTIC FISHING CRAFT.

	Pages		Pages
A		H	
Alsea Bay and River, Oreg.	56, 113	Half Moon Bay, Calif.	27, 105
Anacortes Harbor, Wash.	68, 116	Hammersley Inlet, Wash.	60, 115
Anchorage, Alaska	80, 120	Hana Harbor, Maui, Hawaii	35, 107
Astoria, Oreg., Port of	44, 110	Hilo Harbor, Hawaii, Hawaii	83, 121
B		Homer, Alaska	83, 121
Barbers Point Harbor, Oahu, Hawaii	31, 106	Honolulu Harbor, Oahu, Hawaii	31, 106
Bellingham Bay and Harbor, Wash.	69, 117	Hoonah Harbor, Alaska	84, 121
Berkeley, Calif.	27, 105	Hoquiam River, Wash.	71, 117
Bethel Harbor, Alaska	82, 120	Humboldt Harbor, Alaska	84, 121
Blaine Harbor, Wash.	71, 117	Humboldt Harbor and Bay, Calif.	25, 104
Bodega Bay, Calif.	27, 105	I	
C		Icy Strait, Alaska	90, 122
Carquines Strait, Calif.	22, 104	Introduction	VII
Chatham Strait, Alaska	88, 122	J	
Chatco River, Oreg.	56, 113	Juneau Harbor, Alaska	84, 121
Chinook Channel, Wash.	56, 113	K	
Clarence Strait, Alaska	89, 122	Kahului Harbor, Maui, Hawaii	30, 106
Clatskanie River, Oreg.	56, 113	Kailua Harbor, Oahu, Hawaii	35, 107
Coeur D'Alene Lake and St. Joe River, Idaho	71, 117	Kake Harbor, Alaska	75, 118
Columbia River Basin, Oreg., Wash., and Idaho	41	Kalama, Wash., Port of	46, 110
Columbia and Lower Willamette Rivers below Vancouver, Wash., and Portland, Oreg.	41, 109	Kalaupapa Harbor, Molokai, Hawaii	35, 107
Columbia River above the Dallas Dam, Wash., and Oreg. to McNary Lock and Dam, Oreg., and Wash.	50, 111	Kaunakakai Harbor, Lanai, Hawaii	35, 107
Columbia River and Tributaries above McNary Lock and Dam to Kennewick, Wash.	36, 108	Kaunakakai Harbor, Molokai, Hawaii	35, 107
Columbia River at Bakers Bay, Wash.	56, 113	Kawaihae Harbor, Hawaii, Hawaii	28, 106
Columbia River Basin, total waterborne commerce	38	Ketchikan Harbor, Alaska	73, 118
Columbia River between Vancouver, Wash., and The Dalles, Oreg.	50, 111	King Cove, Alaska	85, 121
Columbia River Entrance, Oreg., and Wash.	38, 109	Kodiak Harbor, Alaska	85, 121
Columbia River Mouth to the International Boundary (consolidated report)	38, 109	Kootenai River, Idaho and Mont.	71, 117
Columbia River, Ports other than Portland, Astoria, St. Helens, Longview, Vancouver, and Kalama	44, 110	L	
Columbia River, between Wenatchee to Kettle Falls, Wash.	71, 117	Lake River, Wash.	56, 113
Columbia Slough, Oreg.	56, 113	Lake Washington Ship Canal, Wash.	65, 116
Commodity classification	IX	Levia River, Wash.	56, 113
Coos and Millicoma Rivers, Oreg.	54, 112	Long Beach Harbor, Calif.	3, 99
Coos Bay, Oreg.	54, 112	Longview, Wash., Port of	45, 110
Coquille River, Oreg.	56, 113	Los Angeles Harbor, Calif.	5, 99
Cordova Harbor, Alaska	82, 121	Lynn Canal, Alaska	90, 122
Cowlitz River, Wash.	56, 113	M	
Craig Harbor, Alaska	82, 121	Metlakatla Harbor, Alaska	86, 121
Crescent City Harbor, Calif.	27, 105	Middle River, Calif.	14, 102
D		Mission Bay, Calif.	9, 100
Deep River, Wash.	56, 113	Mokelumne River, Calif.	14, 102
Depoe Bay, Oreg.	56, 113	Monterey Harbor, Calif.	27, 105
Dillingham Harbor, Alaska	82, 121	Morro Bay Harbor, Calif.	9, 100
Douglas Harbor, Alaska	82, 121	Moss Landing Harbor, Calif.	27, 105
Dry Pass, Alaska	83, 121	Multnomah Channel, Oreg.	47, 111
E		N	
Egegik River, Alaska	83, 121	Naknek River, Alaska	86, 121
Elfin Cove Harbor, Alaska	83, 121	Napa River, Calif.	27, 105
Ellwood, Calif.	9, 100	Nawiliwili Harbor, Kauai, Hawaii	33, 107
Elkomin Slough, Wash.	56, 113	Neah Bay, Wash.	71, 117
Encina, Calif.	9, 100	Newport Bay Harbor, Calif.	9, 100
Sverett Harbor and Snohomish River, Wash.	66, 116	Ninilichik Harbor, Alaska	86, 121
F		Nikishka, Alaska	91, 122
Flathead Lake, Mont.	71, 117	Nome Harbor, Alaska	86, 121
Frederick Sound, Alaska	89, 122	Noyo River, Calif.	27, 105
G		O	
Gastineau Channel, Alaska	83, 121	Oakland Harbor, Calif.	18, 103
Grays Harbor and Chehalis River, Wash.	57, 115	Old Harbor, Alaska	87, 121
Grays River, Wash.	56, 113	Old River, Calif.	14, 102
		Olympia Harbor, Wash.	60, 115
		Oregon Slough (North Portland and Harbor), Oreg.	47, 111
		P	
		Pelican Harbor, Alaska	87, 121
		Peril Strait, Alaska	91, 122
		Petaluma River, Calif.	27, 105
		Petersburg Harbor, Alaska	87, 121
		Port Alexander, Alaska	87, 121
		Port Allen Harbor, Kauai, Hawaii	35, 107

P	Pages	S	Pages
Port Angeles Harbor, Wash.	57, 115	Snake River, Oreg., Wash., and Idaho	36, 108
Port Gamble Harbor, Wash.	60, 115	Stephens Passage, Alaska	93, 122
Port Huamene, Calif.	7, 100	Stikine River, Alaska	87, 121
Portland, Oreg., Port of	51, 112	Stillaguamish River, Wash.	71, 117
Port Orford, Oreg.	36, 114	Stockton, Calif.	13, 102
Port Townsend Harbor, Wash.	59, 115	Suisun Bay Channel, Calif.	26, 104
Prince Wales IS. West Side, Alaska	92, 122	Suisun Channel, Calif.	27, 105
Puget Sound Area, Other Ports, Wash.	71, 117	Summer Strait, Alaska	93, 122
		Swinomish Channel, Wash.	67, 116
Q			
Quillayute River, Wash.	71, 117	T	
		Tacoma Harbor, Wash.	61, 115
R		Tillamook Bay and Bar, Oreg.	56, 114
Radondo Beach, Calif.	9, 100	Tongass Narrows, Alaska	94, 122
Redwood City Harbor, Calif.	17, 103		
Revilagigado Channel, Alaska	92, 122	U	
Richmond Harbor, Calif.	20, 104	Umpqua River, Oreg.	55, 113
Rogue River, Oreg.	56, 114	Unalaska Bay & Island, Alaska	87, 122
S		V	
Sacramento, Calif.	11, 101	Valdez Harbor, Alaska	79, 119
Sacramento River, Calif.	10, 101	Vancouver, Wash., Port of	68, 111
Sacramento River Deepwater Ship Channel, Calif.	10, 101		
St. Helens, Oreg., Port of	56, 113	W	
San Diego Harbor, Calif.	3, 99	Wake Island Harbor, Wake Island	35, 107
San Francisco Bay and Delta Area, total	15	Waterway connecting Port Townsend Bay and	
commerce of	15	Oak Bay, Wash.	71, 117
San Francisco Bay Area, Other Port, Calif.	27, 105	Wells Harbor, Midway Island	35, 107
San Francisco Bay Entrance Calif.	15, 103	Westport Slough, Oreg.	56, 114
San Francisco Harbor, Calif.	15, 103	Willamette River above Portland and	
San Joaquin River, Calif.	12, 101	Yamhill River, Oreg.	53, 112
San Pablo Bay and Mare Island Strait, Calif.	21, 104	Willapa River and Harbor and Naselle	
San Rafael Creek, Calif.	27, 105	River, Wash.	71, 117
Santa Barbara Harbor, Calif.	9, 100	Wrangell Harbor, Alaska	74, 118
Santa Cruz Harbor, Calif.	27, 105	Wrangell Narrows, Alaska	74, 118
Seattle Harbor, Wash.	63, 116		
Seldovia Harbor, Alaska	87, 121	Y	
Sergius and Whitestone Narrows, Alaska	77, 119	Yaguina Bay and Harbor, Oreg.	55, 113
Seward Harbor, Alaska	79, 120	Yaguina River, Oreg.	56, 114
Sitka Harbor, Alaska	76, 118	Yonaga Bay and Yonaga River, Oreg.	56, 114
Siulaw River, Oreg.	56, 114		
Skagit River, Wash.	71, 117		
Skagway Harbor, Alaska	78, 119		
Skamokawa Creek, Wash.	56, 114		
Skamokawa (Steamboat) Slough, Wash.	56, 114		
Skipanon Channel, Oreg.	56, 114		
Smith River, Oreg.	56, 114		